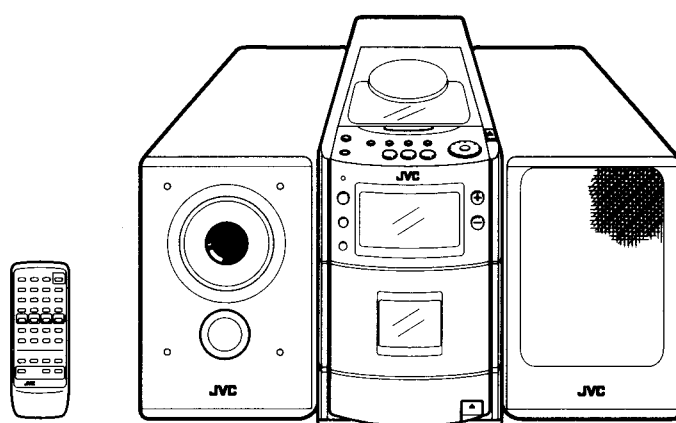


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-T100 TN B/E/EN/G



Area Suffix

BU.K.
EContinental Europe
ENNorth Europe
GGermany

COMPACT
disc
DIGITAL AUDIO

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1. Safety Precautions

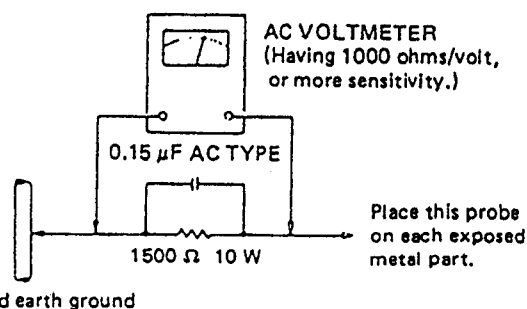
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety – related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by (Δ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re – assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.



CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

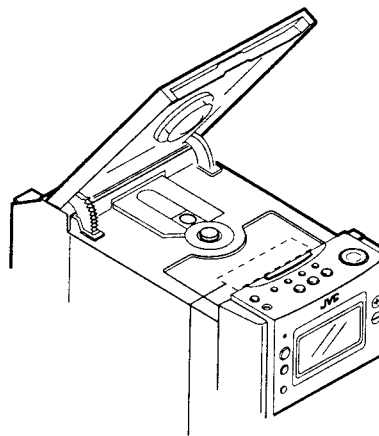
2. Safety Precaution about UX – T100

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

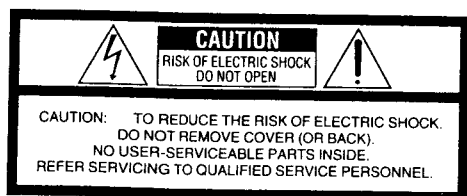
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

REPRODUCTION OF LABELS AND THEIR LOCATION



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)	WARNING: Osynlig laserstråling når denne del er åben og spærren er urkopplad. Betrakta ej strålen. (s)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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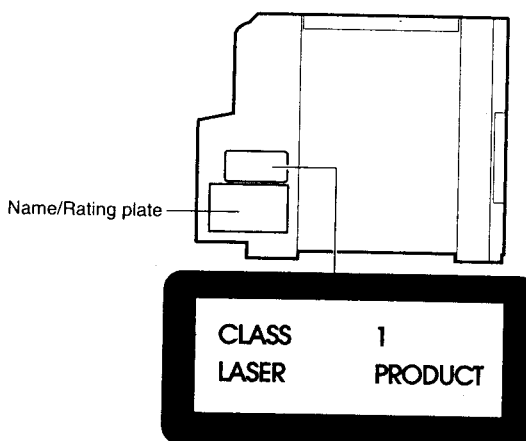
WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in



Caution:
This production contains a laser component of higher laser class than Class 1.

■ Important management points regarding safety (Item demanding special safety precautions)

1. Power transformer marking : VTP66J2-12L

The torque of the screw driver for the power transformer must be controlled.

2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.

The AC socket must not float from print circuit board.

• Marking HJC – 027

3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

4. Before installation confirm the fuse capacity indication, (S) and (♡) marks on the fuse holder.

REF.NO	Capacity and mark	Indication on P.C.board
F901	T400mA	T400mA
F903	T5A	T5A

5. Following parts are controlled as the heated parts. Confirm that the flammable parts are lifted up ,the parts in () must be control.

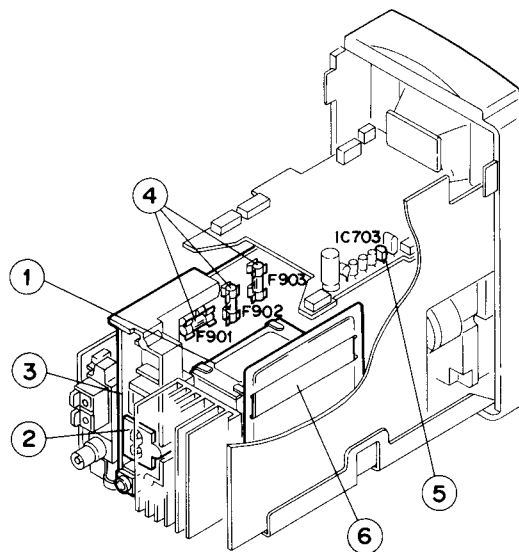
• IC : IC31, (IC703), Transistor : Q9001 , Q9201, Q303, Q304, Q305, Resistor : R9009, R9010, R9011, R9021, R310, R311, R9102, • Diode: D901, D902, D903, D904, D7011 • Radiation

6. The barrier must be attached on the shield of tighten with the transformer.

7. Confirm following EMC (Electromagnetic Compatibility)control matter.

Control parts , and Control work (Symbol number)

TU1 , CF1, CF2, L1, L11, C8 (Tuner board) , C901, C902, C903, C904, L901(Main board)

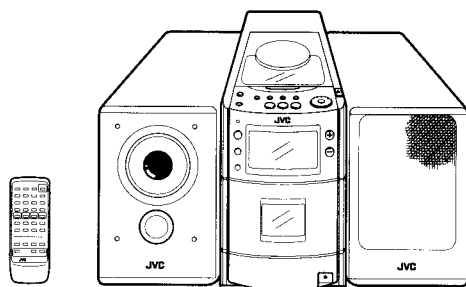


JVC



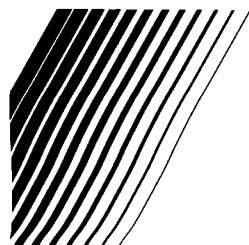
MICRO COMPONENT SYSTEM

UX-T100 B



COMPACT
disc
DIGITAL AUDIO

INSTRUCTIONS



(No. 10037) 5

ENGLISH

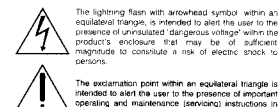
Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.



CONTENTS

Features	3
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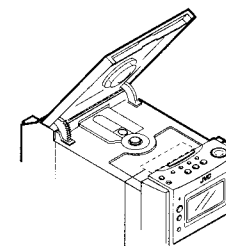
WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



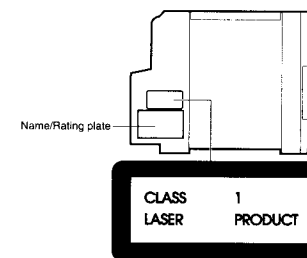
IMPORTANT FOR LASER PRODUCTS

- PRECAUTIONS**
- CLASS 1 LASER PRODUCT**
 - DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
 - CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
 - CAUTION:** The CD player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder or CD tray is open. It is dangerous to defeat the safety switches.
 - CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

REPRODUCTION OF LABELS AND THEIR LOCATION



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Udsigtig laserstråling ved åbning af sikkerhedsudrustningen af funktion. Undgå direkte blik for stråling.	AVVERTISSEMENT: Rayonnement laser invisible lorsque l'ouverture est défectueuse ou que l'interverrouillage est vaincu. Évitez l'exposition directe au faisceau laser.	VARO: Avulattessa laser-säteilyä näkyvissä silmien suuntaan, kun suojalaitteet ovat viallisia tai niiden toiminta on estetty. Älä katso suoraan.
(a)	(b)	(c)	(d)



Caution:
This production contains a laser component of higher laser class than Class 1.

3. Instructions

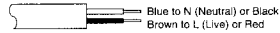
UX - T100TN B/E/ENG

IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.
If nonetheless the mains plug is out of use ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.
The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

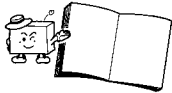
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT – CONSULT A COMPETENT ELECTRICIAN.

FEATURES

- CD-size micro component system consisting of 3 units
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- One-touch operation (COMPU PLAY)
- 35-key remote control unit operates all CD, cassette deck and tuner functions
- Multi-function CD player
- Programmed play of up to 20 tracks
- Repeat Play
- Random Play
- U-Turn auto-reverse full-log mechanism
- Auto tape select mechanism
- Metal (type IV) and CrO₂ (type II) tape can be played back for superior tone quality
- CrO₂ (type II) tape recording capability
- 2-band digital synthesizer tuner with 45-station (30 FM and 15 AM (MW/LW)) preset capability
- Seek/manual tuning
- Auto preset tuning
- Timer/Clock function
- Timer on/off with preset volume function
- Sleep timer can be set for up to 120 minutes

SAFETY PRECAUTIONS



Prevention of Electric Shocks, Fire Hazards and Damage

1. Even when the button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.
6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the unit's ventilation holes that allow heat to escape. Do not install the unit in a badly ventilated place.

button

When the power cord is connected to a household AC outlet, the power indicator lights in red indicating the STANDBY mode. When the button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the button is set to STANDBY.

Caution:

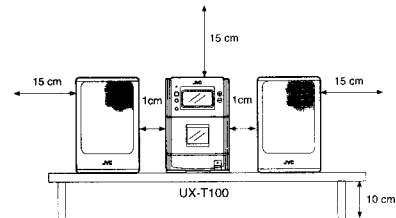
Proper Ventilation

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

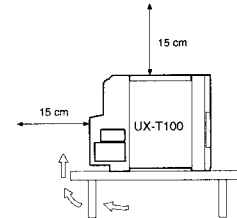
1. Front:

No obstructions and open spacing.

Front view



Side view



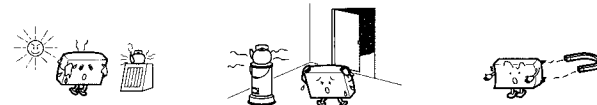
2. Sides/Top/Back:

No obstructions should be placed in the areas shown by the dimensions below.

3. Bottom:

Place on a level surface. Maintain an adequate air path for ventilation by placing on a table with a height of 10 cm or more.

HANDLING PRECAUTIONS



Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).

1. Avoid installing in the following places

- Where it could be subject to vibrations.
- Where it is excessively humid, such as in a bathroom.
- Where it could be magnetized by a magnet or speaker.

2. Pay attention to dust

- Be sure to close the CD holder or CD tray so that dust does not collect on the lens.

3. Condensation

In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.

- In a room where a heater has just been switched on.
 - In a place where there is smoke or high humidity.
 - When the unit is moved directly from a cold to a warm room.
- In these cases, set the button to STANDBY and wait 1 or 2 hours before use.

4. Volume setting

CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during play.

5. Safety mechanism

This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD holder or CD tray is open, the laser beam stops automatically.

6. Do not place cassette tapes, etc. near the speakers

Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.

7. Keep this unit away from your TV

When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

8. Cleaning the cabinet

If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzene or thinner as these could damage the surface finish.

9. When listening with headphones

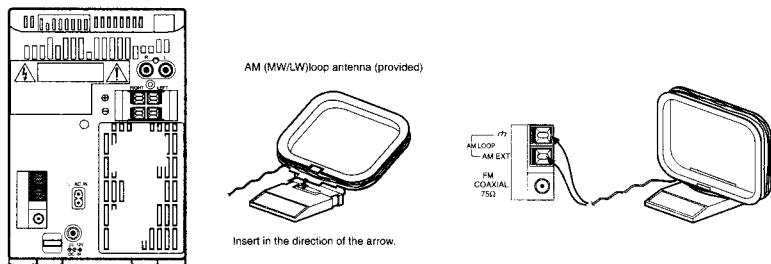
- Do not listen at high volumes as this could damage your hearing.
- For safety, do not drive while listening to this unit.

CONNECTIONS

• Do not switch the power on until all connections are completed.

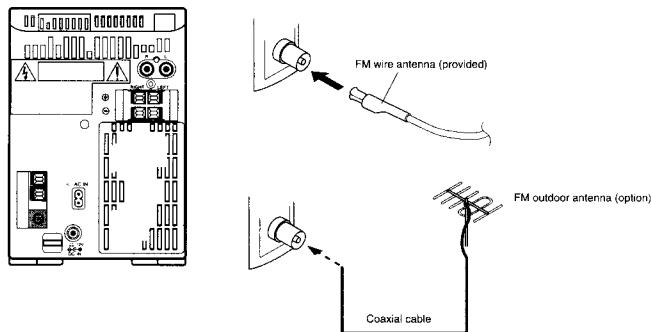
Antenna connection and adjustment

• AM (MW/LW) loop antenna adjustment



• Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)

• FM antenna connections and adjustments

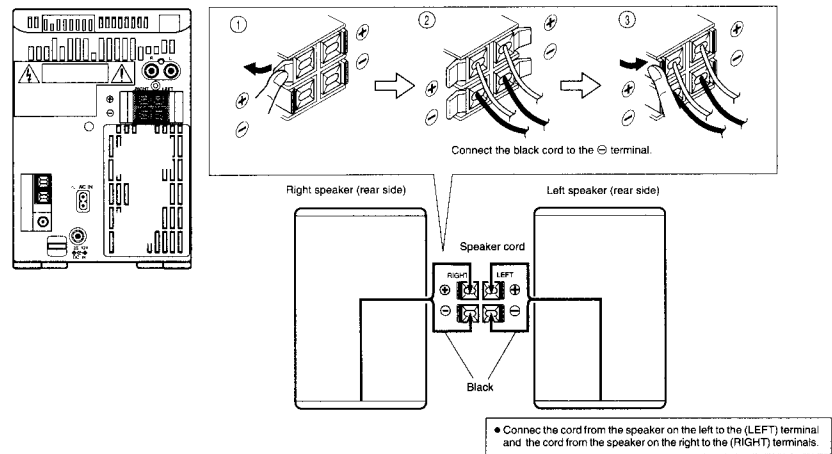


• Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.

Notes:

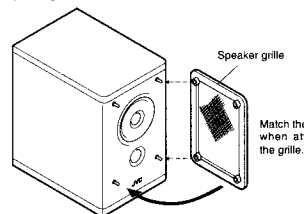
- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires expertise; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate noise. Do not install the loop antenna so that it touches the rear of the unit.

Speaker cord connection



- The speaker grilles can be removed.
- When removing:
 1. Insert your fingers at the top and pull towards you.
 2. Also pull the bottom towards you.

• Attaching the speaker grille

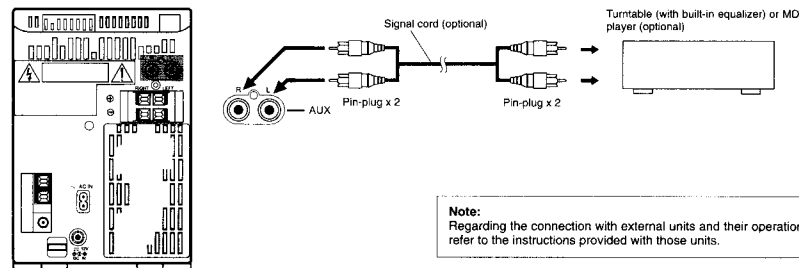


Notes:

- The polarity of the two connected speakers will be the same if the black speaker cords are connected to the \ominus terminals. If the speakers are connected with polarities reversed, stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's picture could be distorted. Install the speakers more than 20 cm away from your TV.
- When connecting the speaker cord make sure that the wire core, not the insulating cover, is connected to the speaker terminal. Otherwise, sound cannot be heard.

Connection of external audio units

• Connection with a turntable (or MD player)



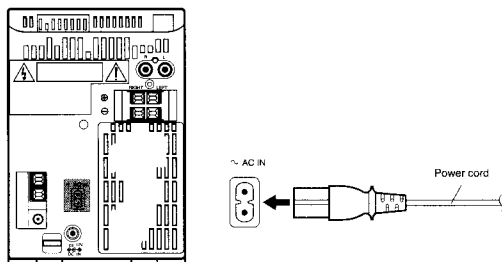
Note:

Regarding the connection with external units and their operations, refer to the instructions provided with those units.

POWER SUPPLY

A. Connection of AC power cord

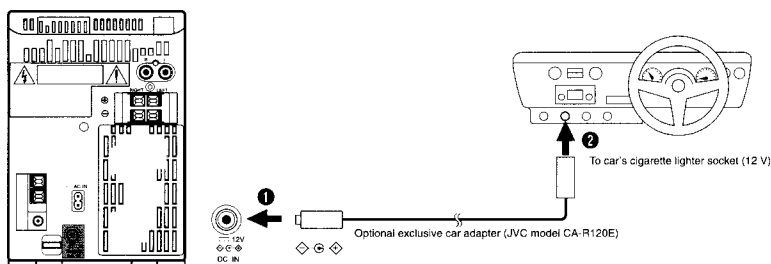
- Connect the AC power cord after all other connections have been made.



CAUTIONS:

1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.
2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

B. Operation on car battery (DC 12 V)



- First connect the car adapter to the DC IN 12 V jack, not the cigarette lighter socket, because shorting of a plug on the car may cause the fuse to blow out. In addition, be careful not to make a short-circuit between the plugs.
- When using a car battery, be sure to use the specified car adapter (JVC model CA-R120E) to prevent mishaps or damage resulting from different polarity design.

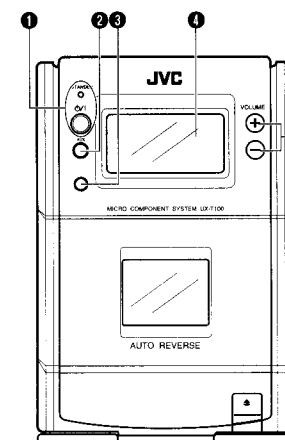
Note:

- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section

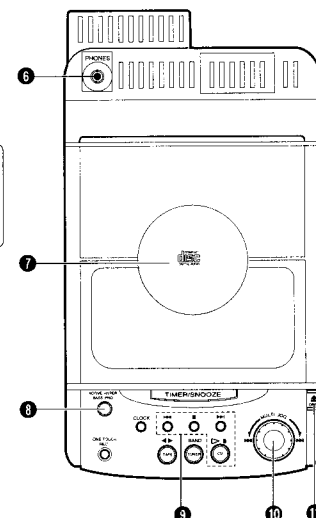
Front



1. \odot /I button and power STANDBY indicator
2. AUX button
3. Remote sensor section
4. Display window
 - ① Function/Track number display
 - ② Play time display
 - ③ Music calendar display
 - ④ Program mode indicator (PROGRAM)
 - ⑤ RANDOM play indicator
 - ⑥ Repeat play indicator (ALL)
 - ⑦ OVER indicator
5. VOLUME buttons
 - + : Use to increase the volume.
 - : Use to decrease the volume.
 (Control range from VOL. 0 to VOL. 50.)
6. Headphones jack (PHONES) (3.5 mm dia. stereo mini)

Connect headphones (impedance 16 Ω to 1k Ω) to this jack. Speaker sound is automatically switched off when the headphones are connected.

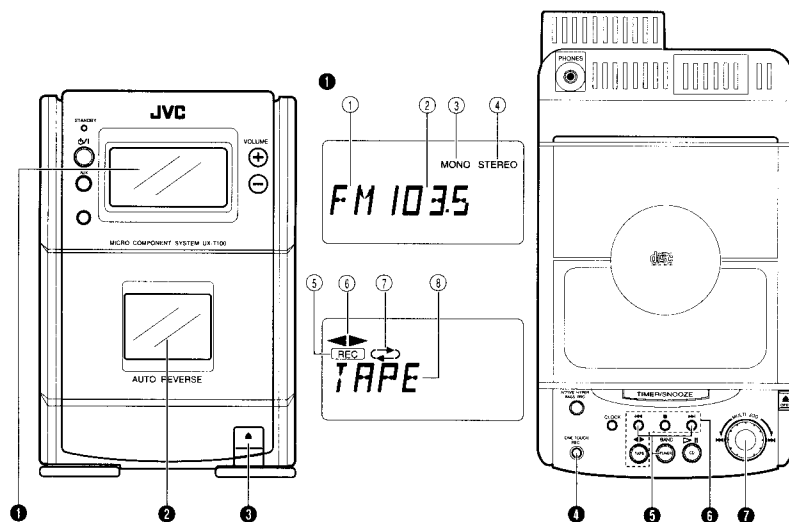
Top



7. CD holder
8. ACTIVE HYPER BASS PRO button
9. CD operations buttons
 - CD search buttons (\leftarrow , \rightarrow): Press to locate the beginning of a track and to start forward/reverse search operations.
 - Stop button (\blacksquare): Press to stop playing a CD.
 - CD play/pause button (\triangleright , \blacksquare): Press to play a CD or to stop temporarily.
10. MULTI JOG dial

When the function is CD and the dial is turned, the beginning of a track can be searched. (1 track is selected by 2 clicks.)
11. CD holder OPEN (\triangle) button

Tuner/Deck section



1 Display window

- ① Band indicator
- ② Radio frequency display
- ③ MONO indicator
- ④ STEREO indicator
- ⑤ Recording indicator (REC)
- ⑥ Tape direction indicator (▶, ◀)
- ⑦ Reverse mode indicator (⏮, ⏭, ⏪, ⏩)
- ⑧ Tape (TAPE) mode display

2 Cassette holder

- ③ Cassette holder eject (▲) button
- ④ ONE TOUCH REC button
- ⑤ TUNER/BAND button

Press to select tuner mode.
Press to select the band.
Tuning buttons (◀▶)

6 Cassette operation buttons

- ◀▶: Press to rewind the tape.
- : Press to stop the tape.
- ▶▶: Press to fast wind the tape.
- TAPE (◀▶): Press to select the TAPE mode.
- ▶: Press to play back the tape in the forward direction.
- The ▶ indicator lights in the display window.
- ◀: Press to play back the tape in the reverse direction.
- The ◀ indicator lights in the display window.

7 MULTI JOG Dial

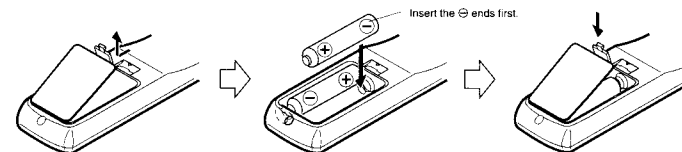
The preset station can be selected. (1 station is selected by 2 clicks.)

REMOTE CONTROL UNIT

Preparation before use

• Installing batteries in the remote control unit

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R6/AA (15F)" size batteries.
 - Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.
3. Replace the cover.



• Battery replacement

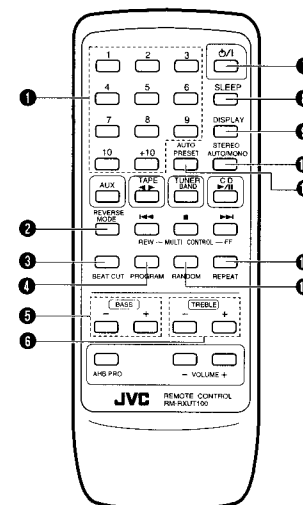
When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Using the remote control unit

- Point at the remote sensor and operate within about 7 m (approx. 23 ft).
- The remote control range is less when the unit is used at an angle.
- Do not expose the remote sensor to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the remote sensor and the unit.

The following operations can be performed using the remote control unit.

- Check the operation button functions carefully and operate them correctly.



1 Track number buttons (No. 1 to No. 10, +10)

Press station buttons (No. 1 to No. 10, +10)

2 REVERSE MODE button

◀▶: For signal-side recording or playback.
⏮: For recording or playback on both sides.

⏭: For continuous play.

3 BEAT CUT button

4 PROGRAM button

5 BASS buttons (+, -)

(Control range from -6 to 6.)

6 TREBLE buttons (+, -)

(Control range from -6 to 6.)

7 ⏮/I button

8 SLEEP button

9 DISPLAY button

Use to display the current time.

10 STEREO AUTO/MONO button

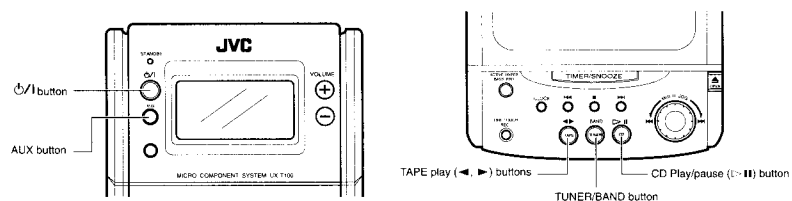
11 AUTO PRESET button

12 REPEAT button

13 RANDOM button

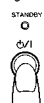
• Buttons not mentioned here have the same functions as those on the main unit.

SWITCHING THE POWER ON/OFF



Switching the power on/off

Switching on:



The STANDBY indicator goes out. • The indicator in the display window lights.

Switching off:



The STANDBY indicator lights. • The indicator in the display window goes out and only the clock is indicated.

One touch operation (COMPU PLAY)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

	Function mode	Operations
	CD	When this button is pressed with a CD loaded, CD playback begins.
	TAPE	When this button is pressed with a tape loaded, tape playback begins.
	TUNER	When this button is pressed, the tuner is engaged.
	AUX	A sound source connected to the AUX terminal can be engaged.

Notes:

- When switching off the power, be sure to press the button.
- The COMPU PLAY function the remote control has the same function as that on the main unit.

VOLUME, TONE AND OTHER CONTROLS

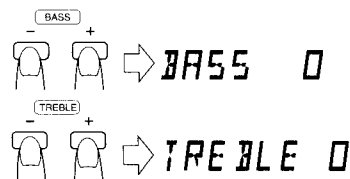
VOLUME buttons

+ : Use to increase the volume.
- : Use to decrease the volume.
(Control range from VOLUME 0 to VOLUME 50.)



BASS/TREBLE buttons (using the remote control unit)

To set the bass or treble level, press the corresponding button. The level setting ranges from -6 to 6.



ACTIVE HYPER-BASS PRO button

ON: The BASS indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.
OFF: The BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

HANDLING CDs

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

1. Usable CDs

Use CDs with the mark shown.

2. Notes on handling CDs

- Do not touch the reflective recorded surface.
- Do not stick or write anything on the label side.
- Do not bend CDs

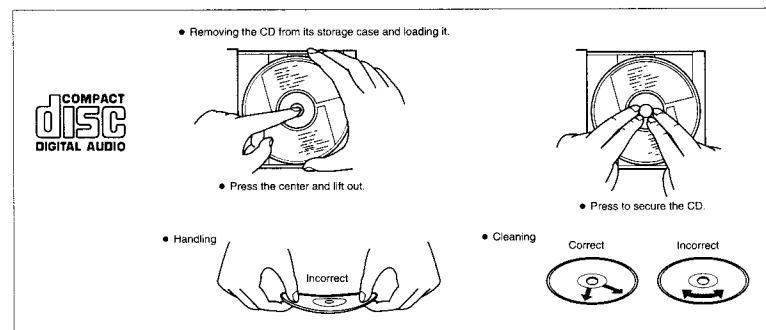
3. Storage

- After removing a CD from the unit, be sure to put it back in its case.
- Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. Cleaning CDs

- Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.

- Never use thinner, benzene, record cleaner or antistatic spray.

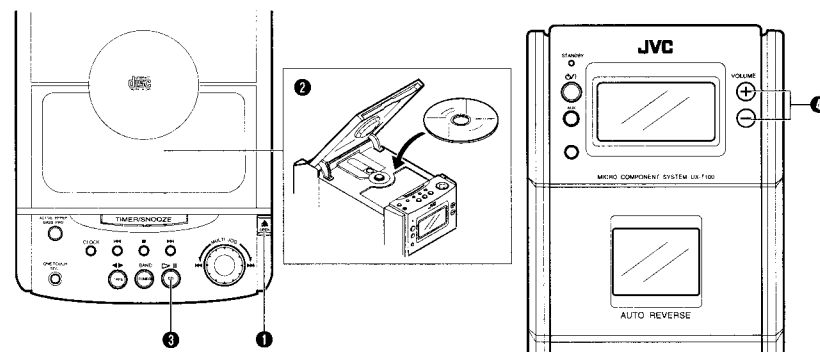


PLAYING CDs

Playing an entire CD

The following example of playing an entire CD assumes a CD with 12 tracks and a total playing time of 48 minutes 57 seconds.

Operate in the order shown




- 1 Press to open the CD holder.
- 2 Load a CD with the label side facing up and close the CD holder.
- 3 Press to start play. (The power is switched on.)
- 4 Adjust.

- As tracks are played, their track numbers go out one by one.

• 8-cm (3") CDs can be used in this unit without an adapter.

● **To stop in the middle of a CD**
During play, press the stop/clear (■) button to stop play.




● The total number of tracks and total playback time are displayed.

● **To stop a CD temporarily**
Press the pause (⏸) button to stop play temporarily and the playing time display blinks.
When pressed again, play resumes from the point where it was paused.

Caution:
● To change CDs, press the stop/clear (■) button; check that the CD has stopped rotating completely before unloading it.

Notes:
● When no CD is loaded, "NO DISC" is indicated in the display window. This indication may also appear when a CD is loaded upside down.
● The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down.
In such a case, check the CD and insert again after cleaning the CD or turning it over.



● **Do not use the unit at excessively high or low temperatures.**
The recommended temperature range is from 5°C (41°F) to 35°C (95°F).
● After play, unload the CD.
● If mistracking occurs during play, lower the volume.

Skip play

- During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track; when the beginning of the required track has been located, play starts automatically.

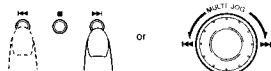
To listen to the next track...

Press the ► button once to skip to the beginning of the next track.

To listen to the previous track...

Press the ◀ button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

- By using the MULTI JOG dial, the beginning of tracks can be searched and played.



Search play (to locate the required position on the CD)

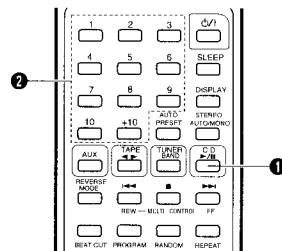
- The required position can be located using fast-forward or reverse search while playing a CD.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access play (using the remote control unit)

- Pressing any of the track number buttons will start play from the beginning of the designated track. (This function cannot be used during programmed play.)

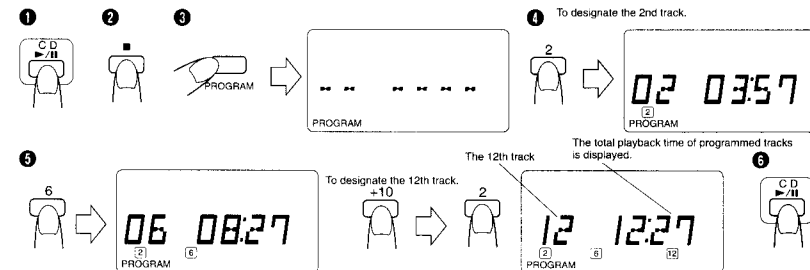


- 1 Press the CD ►/II button to set to the CD mode.
- 2 Designate the required track using the track number buttons.
 - To designate track numbers 1 to 10, press the track number button corresponding to the track number.
 - To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track; press the +10 button once, then press track number button 10.)
 - +10 button.
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another track during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated track.

Programmed play (using the remote control unit)

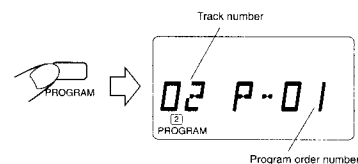
- Up to 20 tracks can be programmed to be played in any required order. The total playing time of programmed tracks is displayed (up to 99 minutes, 59 seconds).
(Example: When programming the 2nd track to be played first, and the 6th track next, then the 12th track, etc.)



- 1 Press the CD ►/II button to set to the CD mode.
- 2 Press the ■ button.
- 3 Press the PROGRAM button to set to the programming mode.
- 4 Press to designate the required track number.
- 5 Designate the remaining tracks by pressing the track number buttons.
- 6 Press the ►/II button when programming is completed. Programmed play starts.

To confirm the details of a program...

Press the PROGRAM button; the tracks making up the program will be displayed in programmed order.



To clear the programmed tracks...

Press the ■ button before playing a CD. During programmed play, press this button twice. When the CD holder is opened, programmed tracks are cleared automatically.

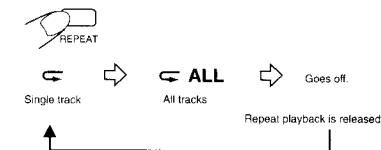
Notes:

- If the total playing time of the programmed tracks exceeds 99 minutes 59 seconds, the total playing time indication will go out.
- When programming a track number higher than 21 on a disc containing more than 21 tracks, the total playback time of all the programmed tracks will not be displayed.
- When a disc with 16 or more tracks is loaded, the "OVER" indicator will appear.

Repeat play (using the remote control unit)

Press the REPEAT button before or during play. A single track or all the tracks can be repeated.

Whether a single track or all tracks are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single track (◄), to all the tracks (◄ ALL), to the clear mode, in this order.



- **Single track repeat (◄)**
The current or specified track will be played repeatedly.
- **All tracks of one CD repeat (◄ ALL)**
All tracks on the current or specified CD will be played repeatedly.

Random play (using the remote control unit)

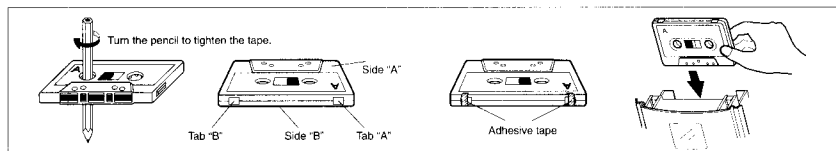
Press the RANDOM button, and all tracks on a CD play once in random order.



HANDLING CASSETTE TAPES

Cassette tapes

- Loose tape may cause trouble. Using a pencil or like object, gently tighten the tape as shown.
- To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver, etc. Reseal the slots with adhesive tape to erase and re-record after the tabs have been removed.
- C-120 cassettes are not recommended because they are prone to malfunction.



Note:

If the power is switched off while tape is running, it may be impossible to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.

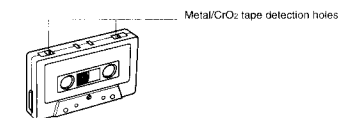
Auto tape select mechanism

This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using detection holes in the cassette. After the type of tape has been detected, bias and equalization suitable for the tape are set.

Cassette loading

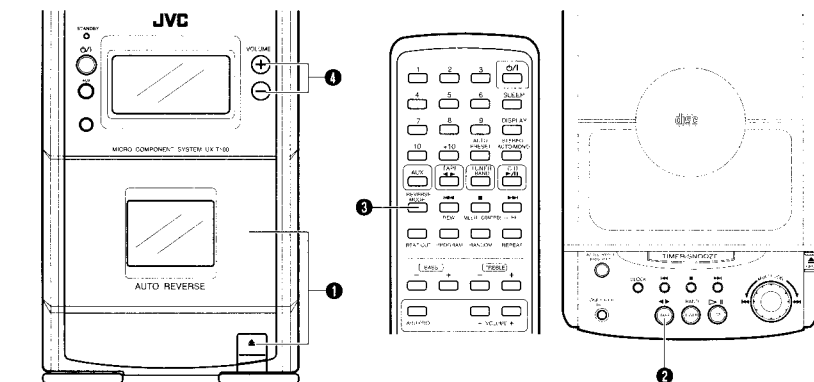
- Press the eject (▲) button to open the cassette holder.
- Load a cassette as shown.
- Close the cassette holder by pressing it gently. Listen for the click indicating that the holder is securely shut.

- Cassettes with detection holes:
 - Metal tape (EQ: 70 μ s) Type IV
 - CrO₂ (chrome) tape (EQ: 70 μ s) Type II
- Cassettes without detection holes:
 - Normal tape (EQ: 120 μ s) Type I



CASSETTE PLAYBACK

Operate in the order shown



- Load a cassette tape.
- Press to start playback. (The power is switched on and the TAPE mode is engaged to start tape playback.)
- Select the reverse mode (◀▶/▶▶/▶▶).
- Adjust.

- After loading a cassette tape, simply press the TAPE ◀▶ button. The power is switched on and the tape starts playback. (To select the playback direction, press the TAPE ◀▶ button. The change in direction can be checked in the tape direction indicator (◀▶ or ▶▶).)

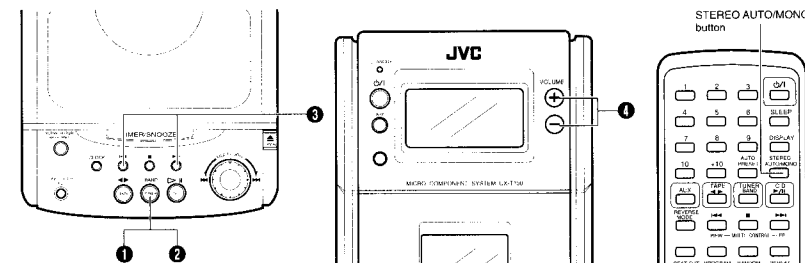
- When the tape plays back with the reverse mode set to ◀▶ (single side play) or ▶▶ (both side play) mode, the tape stops automatically at the end of tape after playing one or both sides. When the reverse mode is set to the ▶▶ (continuous play) mode, the tape continuously plays one side after the other until you stop operation.

How to fast-wind tapes

- Press the TAPE (◀▶) button (to set TAPE mode).
- Press the ◀▶ or ▶▶ button.
 - A tape can be fast-wound in either tape playback direction and when it reaches the end of a side, it stops automatically.

RADIO RECEPTION

Operate in the order shown



- Press the TUNER/BAND button.
 - The power is switched on and a band and radio frequency will be shown in the display.
- Select the band.
- Tune to the required station.
- Adjust.

STEREO AUTO/MONO button (using the remote control unit)

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:

Set to this position when FM stereo reception is noisy. When another station is tuned to in the MONO mode, the unit automatically enters Auto mode.

Seek tuning

Press the ◀▶ or ▶▶ button for one second or more. The unit enters the seek tuning mode to tune in the nearest station automatically, so the broadcast can be heard. In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

Manual tuning

Each time the ◀▶ or ▶▶ button is pressed, the unit steps through the current frequency band. Tuning is done in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).

In AM operation, the tuned frequency moves continuously from the MW (522-1,629 kHz) to the LW (144-288 kHz) band and vice versa.

Press to move to higher frequency.

Press to move to lower frequencies.

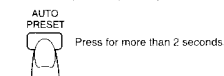
Notes:

- When seek tuning to the required station is not possible because the broadcast signal is too weak, press the ◀▶ or ▶▶ button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE, CD or AUX) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be tuned to.

Auto preset tuning (using the remote control unit)

This function scans the current band, detecting frequencies used to broadcast signals, and stores the first 30 FM frequencies and 15 AM (MW/LW) frequencies in memory automatically.

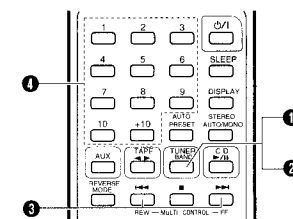
- Press the AUTO PRESET button for more than 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically in the order of increasing frequency. (30 stations in FM band and 15 stations in AM (MW/LW) band.)



Presetting stations (using the remote control unit)

30 stations in FM band and 15 stations in AM (MW/LW) band can be preset as follows:

- Example: (Presetting an FM station broadcasting on 103.5 MHz to preset button "15")



P-15 → FM 103.5

- Press the TUNER/BAND button.
- Select the FM band using the TUNER/BAND button.
- Tune to the required station.
- Press preset button "15", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been stored.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the other band.

- To change preset stations
Perform step ① above after tuning to the required station.

Notes:

- The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control unit is used.

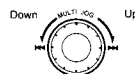
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

Preset tuning

- The stations must be preset before this operation can be performed.

(Using the main unit)

- 1 Press the TUNER/BAND button.
- 2 Select the band using the TUNER/BAND button.
- 3 To select the required preset station, turn the MULTI JOG dial.



Using the antennas (see page 5)

- FM:** Connect the provided FM wire antenna.
AM (MW/LW): Adjust the position of AM (MW/LW) loop antenna.

(Using the remote control unit)

- 1 Press the TUNER/BAND button.
 - 2 Select the band using the TUNER/BAND button.
 - 3 Press the required preset station buttons (No. 1 – No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

RECORDING

- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

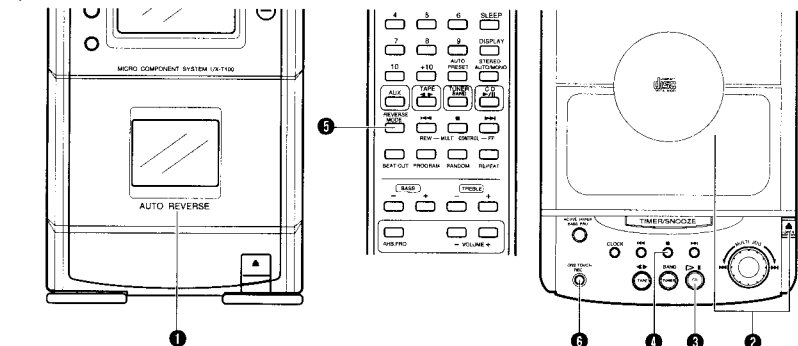
Note:

This unit has recording characteristics suitable for normal and CrO₂ tapes. Normal and CrO₂ tapes have different characteristics from metal tapes.

Synchronized recording with the CD player

- In this system, the CD player starts play when the cassette deck enters the recording mode.

Operate in the order shown



- 1 Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- 2 Load a CD and close the CD holder.
- 3 Set to the CD mode.
- 4 Press the ■ button to set stop mode.
- 5 Select the required reverse mode (← or →).
- 6 Press the ONE TOUCH REC button; synchronized recording will start. (The recording indicator lights up.)

- Recording starts in the forward direction and CD play starts automatically.
- After the CD player has played the entire CD or programmed tracks, the deck stops automatically.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the ■ button. The cassette deck also stops after 4 seconds.

Note:

- During CD synchro recording, the ▷||, SEARCH (◀||, ▶||) buttons and MULTI JOG dial do not function.

When non-recorded section between tunes is not required ...

- 1 Press the ▷|| button twice. The CD Player enters the pause mode.
- 2 Press the ONE TOUCH REC button to start recording.

Note:

- Depending on the CD used, non-recorded sections of different lengths may be left between tunes.

• CD complete recording function (Synchro recording mode only)

If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:

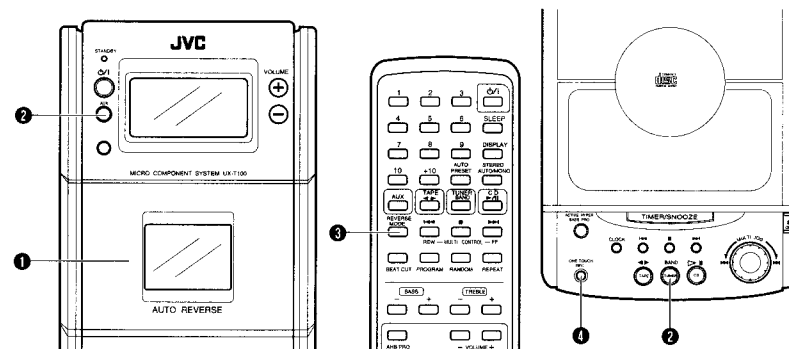
- * When less than 12 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous track.
- * When more than 12 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current track.

• To record one track

Play the track to be recorded. Then pressing the ONE TOUCH REC button locates the beginning of the track and enter the one track recording mode. After the recording is finished, the CD player and cassette deck both stop.

Recording from the radio or an external source connected to the AUX terminals

Operate in the order shown



- 1 Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- 2 Select the source to be recorded.
TUNER: Press the TUNER/BAND button. Tune to the required station.
AUX: Press the AUX button.
- 3 Select the required reverse mode (← or →).
- 4 Press the ONE TOUCH REC button.

BEAT CUT button (using the remote control unit)

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In such case, set this button after setting the deck to the record mode so that the beats are eliminated. Normally set this button to "CUT-1".



CUT-1 → CUT-2 → CUT-3 → CUT-4

Erasing

A recorded tape can be erased by recording new material over the previous material.

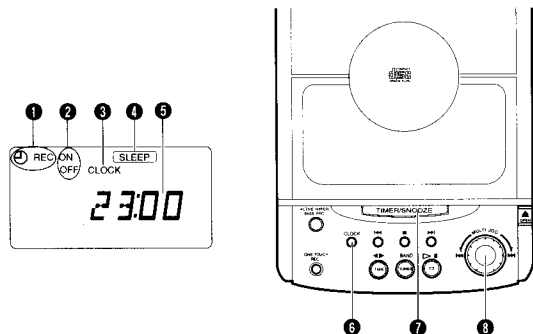
To erase a tape without making a new recording...

1. Press the TAPE (◀▶) button to set to the TAPE mode.
2. Press the ■ button.
3. Insert the cassette with the side to be erased facing out.
4. Press the ONE TOUCH REC button.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

CLOCK ADJUSTMENT

Names of parts in the clock/timer section, and their functions:

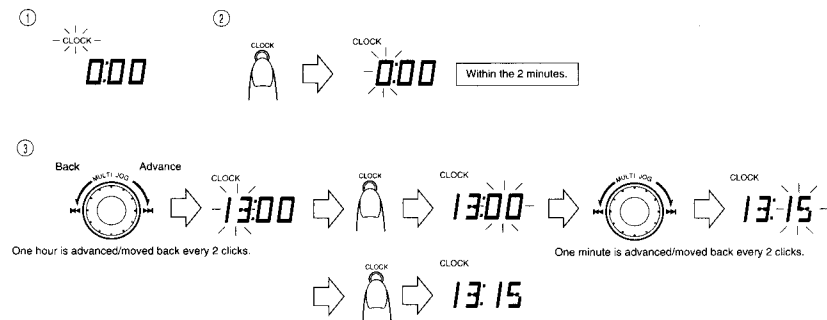


- 1 Timer mode indicator
- 2 Timer indicator (ON/OFF)
- 3 CLOCK indicator
- 4 SLEEP indicator
- 5 Time display

- 6 CLOCK button
 - 7 TIMER/SNOOZE button
 - 8 MULTI JOG dial
- It is used to set the current time and perform timer setting.

Setting the current time (when this unit is used for the first time)

(Example: To set the clock to 13:15.)



- 1 Connect the AC power cord; "CLOCK" will blink in the display.
- 2 Press the CLOCK button for 2 seconds or more.
- 3 Set to 13:15 using the MULTI JOG Dial and CLOCK button.

- Setting the current time.
Use the time signal of television and radio broadcasts.
When adjusting the clock, follow steps ② - ③.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the $\Delta/1$ button set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, "CLOCK" will blink in the display. Set the current time again.

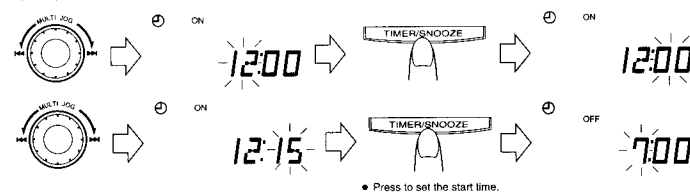
TIMER OPERATIONS

Setting the timer

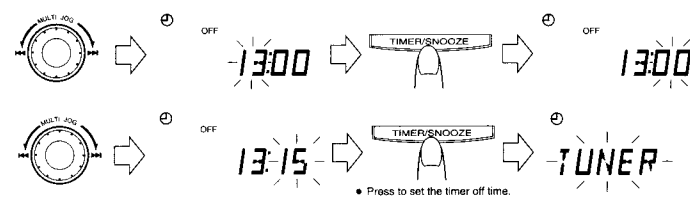
- The current time must be set before the timer can be used.
- Press the TIMER/SNOOZE button for 2 seconds or more.



- 2 Set the start time.
(Example: To set the timer to 12:15.)

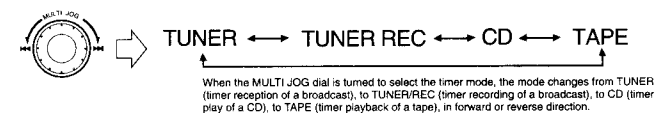


- 3 Set the stop time.
(Example: To set the timer stop timer to 13:15.)

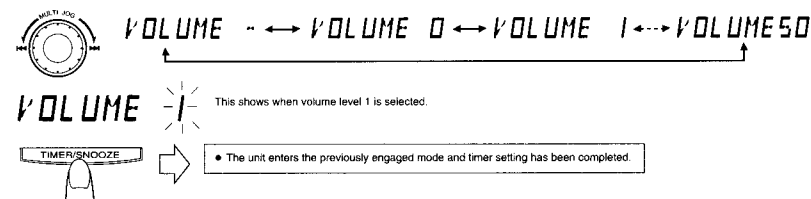


- 4 Select the TIMER mode

- The selected TIMER mode is shown in the display.



- 5 Set the volume.



- The selected volume is set.

- When the volume setting is set to "VOLUME -" (volume level is not specified), the timer playback volume is at the level used before setting the timer.

• **To confirm the timer setting**

1. When (Ⓢ) is displayed...
Press the TIMER/SNOOZE button for more than 2 seconds. (Ⓢ) disappears.
2. Press the TIMER/SNOOZE button for more than 2 seconds once again.
Then each time the TIMER/SNOOZE button is pressed the timer setting can be confirmed. When the previous function mode is restored, showing that the timer setting has been completed.

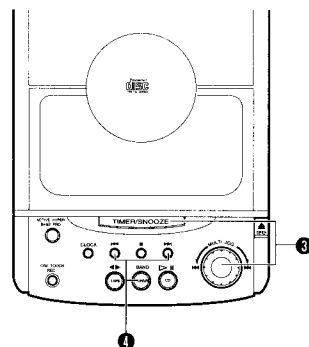
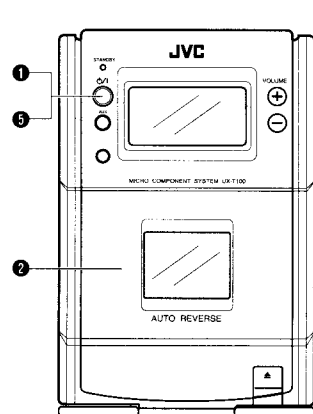
Note:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.

Timer recording of broadcast

- The current time must be set before the timer can be used.
- Make sure that the safety tabs of the cassette have not been broken off.

Operations



1. Set the (Ⓢ) button to ON.

2. Load a cassette.
 - Insert the cassette with the side to be recorded facing out.
 - Select the required reverse mode. (⏮ or ⏭)

3. Set the timer. (Refer to "Setting the timer" on page 20.)
 - Set the timer about a minute before the broadcast to be recorded is scheduled to start.

4. Tune to the station to be recorded. (Refer to page 16.)

5. Set the (Ⓢ) button to STANDBY.

- **Timer recording will start at timer start time and the power will be switched off at timer stop time.** (The timer mode is then released.)

• **To cancel timer operation**

- Press the TIMER/SNOOZE button for more than 2 seconds so that the timer mode indicator (Ⓢ) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

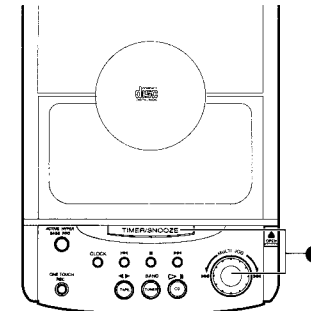
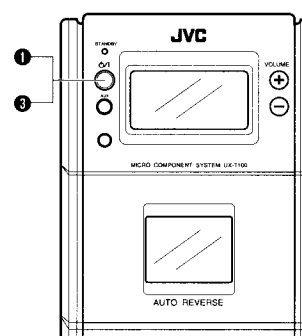
- After setting the timer start and stop times, check that the tuner is tuned to the required frequency.

- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations



1. Set the (Ⓢ) button to ON.
2. Set the timer. (Refer to "Setting the timer" on page 20.)

Source sound	Timer mode	Operations
CD play	CD	Load a disc.
Tape playback	TAPE	Load a cassette tape.
Broadcast	TUNER	Tune to the required station.

3. Set the (Ⓢ) button to STANDBY.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time.

The unit remains in the same timer mode even after the power is switched off. The same timer function will repeat at the same time on the following day.

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

• **To cancel timer operation**

- Press the TIMER/SNOOZE button for more than 2 seconds so that the timer mode indicator (Ⓢ) goes out.

Notes:

- When the volume setting is set to "VOLUME -" (volume level is not specified), the timer playback volume is set to the level used before setting the timer.

- To stop during timer playback, press the (Ⓢ) button to switch the unit off.

• **To get an extra 5 minutes of sleep...**

- When timer playback starts, press the TIMER/SNOOZE button. The power is switched off and timer playback restarts after 5 minutes (snooze function).



Sleep timer operations (using the remote control unit)

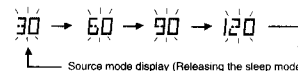
A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

1. Set to the required source and tune (broadcast) or play back (CD or tape).

2. Press the SLEEP button to set the sleep time.



[SLEEP] is shown in the display.



- Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.

- The sleep timer operation will start and the power will be switched off after the specified time.

• **Checking the sleep time**

- When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

• **To cancel the sleep timer operation**

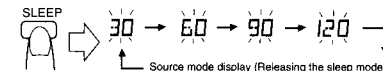
- Press the (Ⓢ) button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

B. To fall asleep while listening to a tape, broadcast or CD and to perform timer playback the following morning

1. Set the timer. (Refer to "Setting the timer" on page 20.)

2. Set to the required source (broadcast, tape or CD).

3. Press the SLEEP button to set the sleep time.



- Any source can be selected for sleep timer operation and timer playback.

For example;

- CD play for sleep timer operation and broadcast reception for timer playback.
- Tape playback for sleep timer operation and CD play for timer playback.

However, when broadcast reception is selected for both sleep timer operation and timer playback, the station you heard at night will be tuned to the following morning.

MAINTENANCE

**Cleaning is important!**

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty...

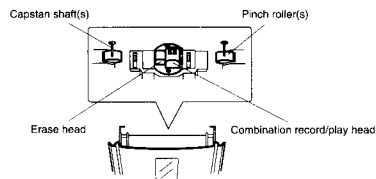
- Sound quality deteriorates.
 - The output sound level drops.
 - Previously recorded tape is not completely erased.
 - Recording is not performed satisfactorily.
- Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

Cleaning the heads, capstan and pinch roller

Open the cassette holder.

Clean the heads, pinch roller and capstan.

For effective cleaning, use a cleaning kit available from an audio store. After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

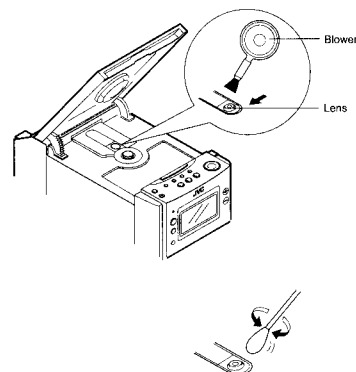
**Cautions:**

1. Keep magnets and metallic objects away from the head.
If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the $\odot/1$ button should be set to STANDBY.)
2. Do not use anything other than alcohol for cleaning.
Thinner and benzene will damage the rubber pinch roller.

Cleaning the lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound. Open the CD holder and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.
- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



TROUBLESHOOTING



What appears to be trouble is not always serious. First make sure...

- **Power cannot be turned on.**
 - * Is the power cord unplugged?
- **No sound from the speakers.**
 - * Are headphones connected?

CD Player Section

- **The CD player does not play.**
 - * Is the CD upside down?
 - * Is the CD dirty?
- **A certain portion of the CD does not play correctly.**
 - * Is the CD scratched?

Cassette Deck Section

- **Playback sound is at a very low level.**
 - * Is the head dirty?
- **The ONE TOUCH REC button does not function.**
 - * Have the safety tabs of the cassette been broken off?

Tuner Section

- **Reception is noisy.**
 - * Try adjusting the antenna.

Timer Section

- **Timer operation does not start.**
 - * Is the current time set correctly?
 - * Is the timer mode (Ⓢ) displayed?

Remote Control

- **Remote control is impossible.**
 - * Are the batteries in the remote control exhausted?
 - * Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note:

Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

When the above remedies do not help

Many operations of this unit are performed by the control of a microprocessor. If none of the buttons function, unplug the power cord, wait for a while, then plug it back in. Reset the correct values for the clock and timer.

SPECIFICATIONS

CD player section

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup
Number of channels	: 2 channels
Frequency response	: 20 Hz - 20,000 Hz
Signal-to-noise ratio	: 90 dB
Wow & flutter	: Less than measurable limit

Radio section

Frequency range	: FM 87.5-108 MHz AM (MW) 522-1,629 kHz AM (LW) 144-288 kHz
Antennas	: Loop antenna for AM (MW/LW) External antenna terminal for FM (75 Ω)

Tape deck section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)
Frequency response	: 60-15,000 Hz (with CrO ₂ tape)
Wow & flutter	: 0.15% (WRMS)
Fast wind time	: Approx. 130 sec (C-60 cassette)

Speaker Section (each unit)

Speakers	: 8 cm (4 Ω),
(Impedance)	
Dimensions	: 131 (W) x 203 (H) x 194 (D) mm
Weight	: Approx. 1.6 kg

General

Power output	: 28 W (14 W + 14 W) at 4 Ω (Max.) 20 W (10 W + 10 W) at 4 Ω (10% THD)
Input terminals	: AUX IN (300 mV/47 kΩ)
Output terminals	: PHONES (Output level: 0-15 mV/ch, 32 Ω, Matching impedance: 16 Ω - 1 kΩ) SPEAKER (Matching impedance 4 Ω - 16 Ω)
Power requirements	: AC 230 V, 50 Hz Ext. DC 12V (car battery via optional CA-R120E car adapter)
Power consumption	: 35 W (with $\odot/1$ button ON) 2.8 W (with $\odot/1$ button STANDBY)
Dimensions	: 404 (W) x 209 (H) x 270 (D) mm, including knobs
Weight	: Approx. 6.5 kg
Accessories provided	: Power cord x 1 Remote control unit (RM-RXUT100) x 1 "R6/AA (1.5F)" batteries x 2 (for the remote control) FM wire antenna x 1 Loop antenna stand x 1

Design and specifications are subject to change without notice.

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4. Location of Main Parts

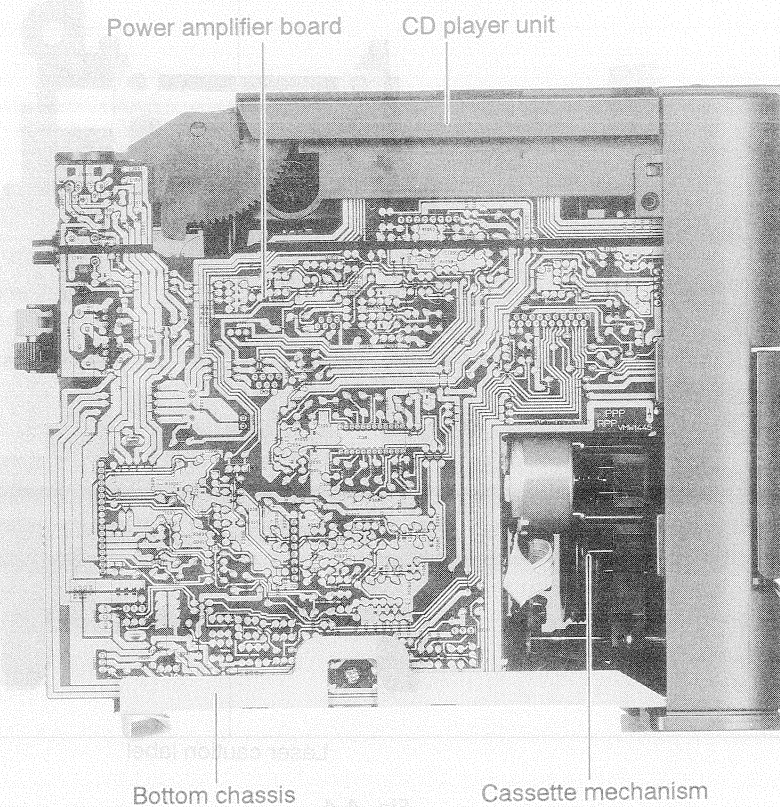
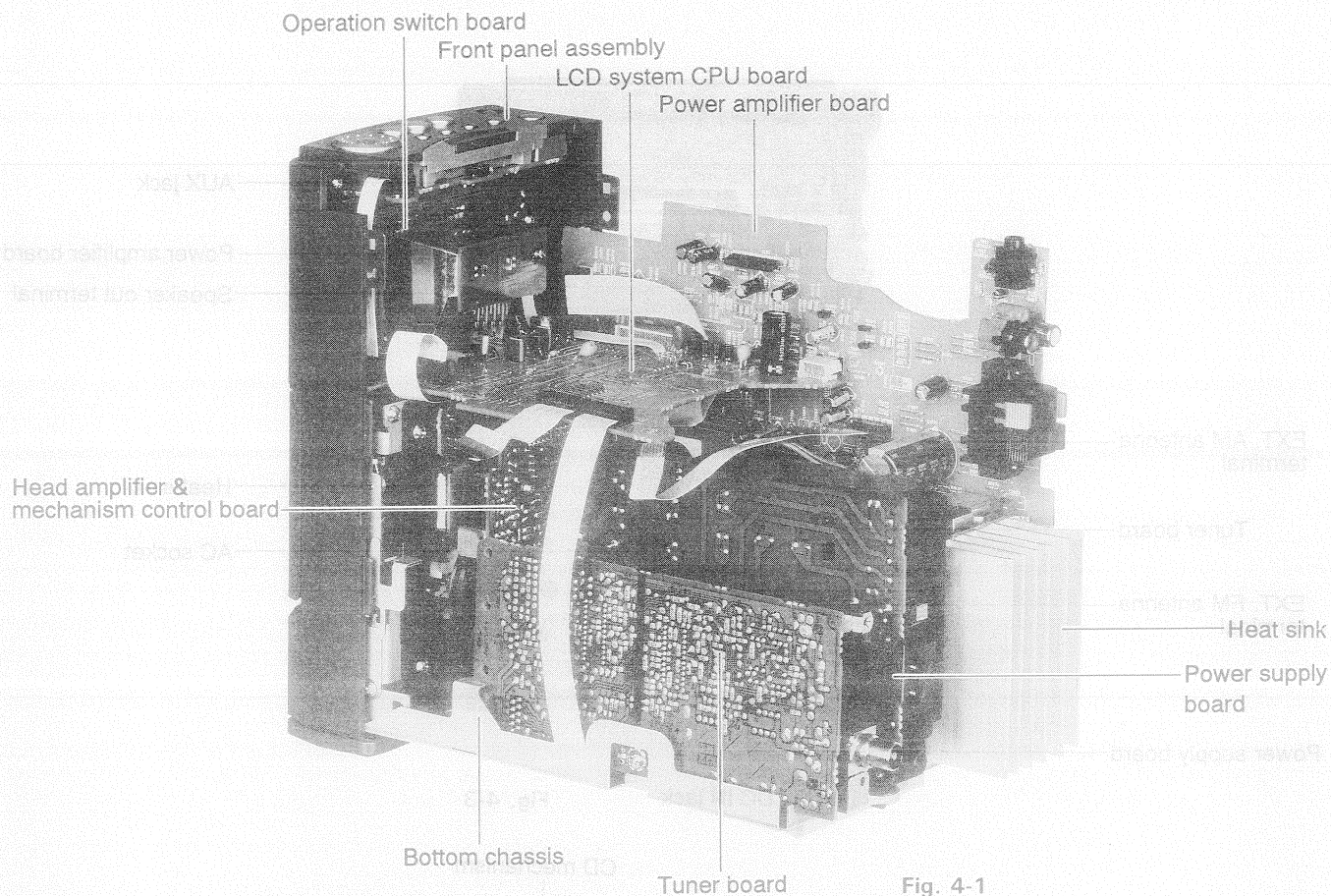


Fig. 4-2

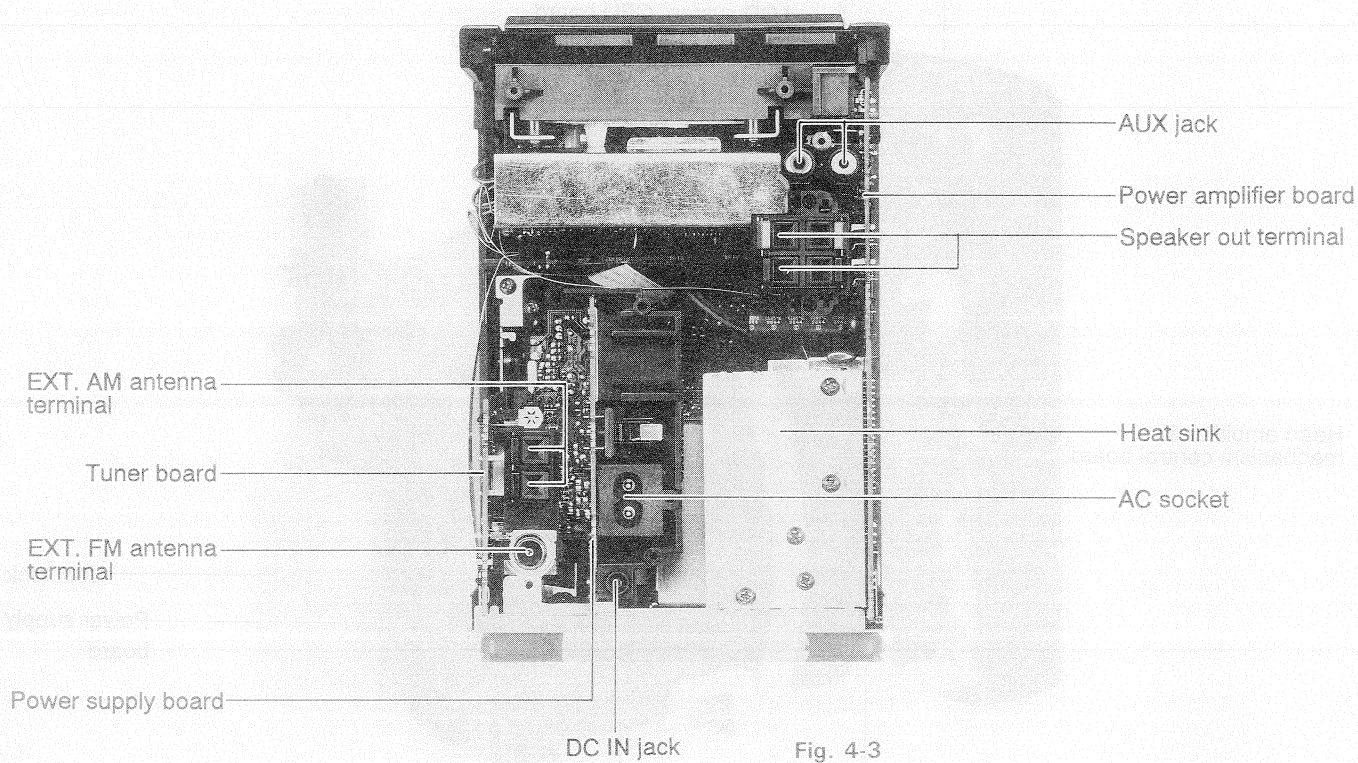


Fig. 4-3

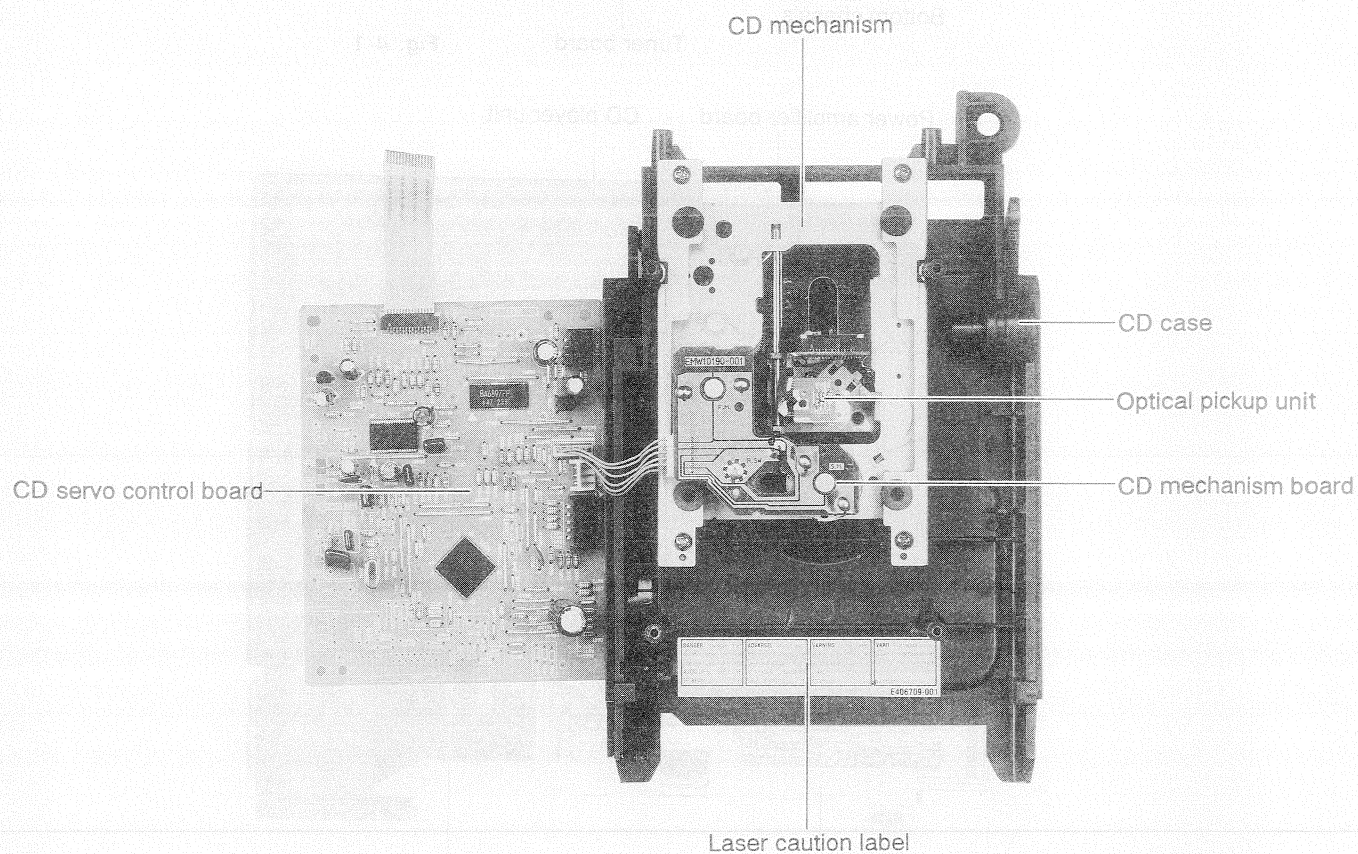


Fig. 4-4

5. Removal of Main Parts

■ Removing the rear panel

(See Figs. 5-1 and 5-2)

1. From behind the body, remove the seven screws ① retaining the rear panel (See Fig. 5-1).
2. After turning the body upside down, remove the two screws ② retaining the rear panel (See Fig. 5-2).
3. Take out the rear panel from behind the body.

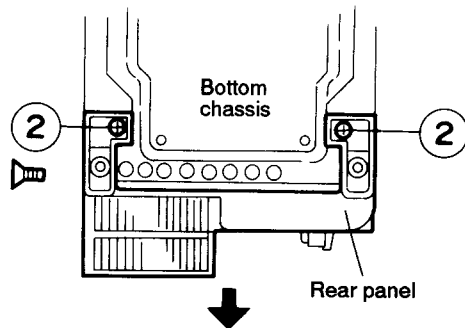


Fig. 5-2

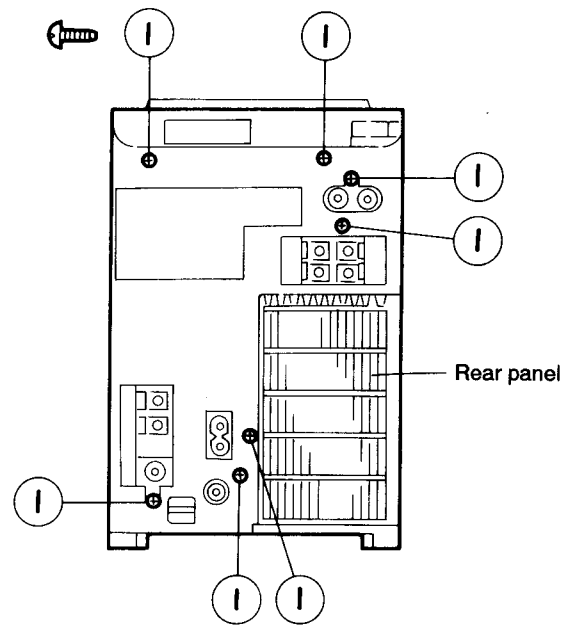


Fig. 5-1

■ Removing the side panels (L and R)

(See Figs. 5-3~5-6)

1. After turning the body upside down, remove the two screws ③ retaining the front cabinet assembly (See Fig. 5-3).
2. After turning the body back to its initial position, open the CD door while pressing the upper [OPEN/CLOSE] button (See Fig. 5-4).
3. While moving the side panel (L) in the arrow direction, remove the panel from the left side of the body (See Fig. 5-5).
4. While moving the side panel (R) in the arrow direction, remove this panel from the right side of the body (See Fig. 5-6).

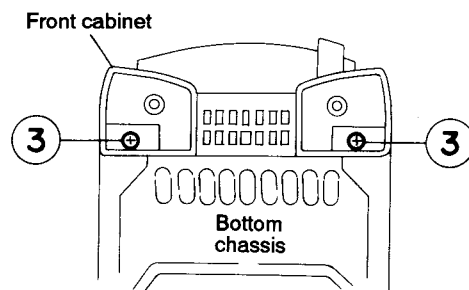


Fig. 5-3

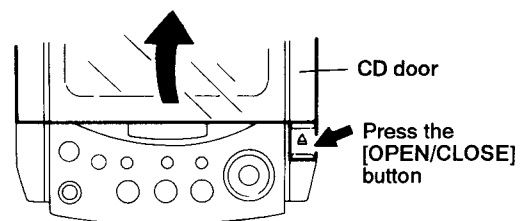


Fig. 5-4

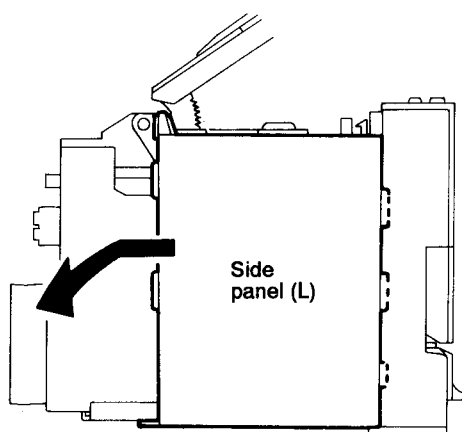


Fig. 5-5

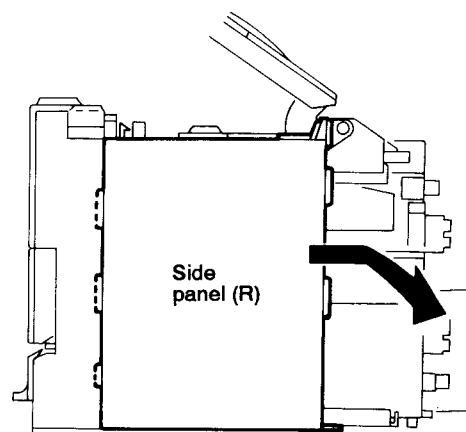


Fig. 5-6

■ Removing the CD player unit

(See Figs. 5-7 and 5-8)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. From the connector CN603 on the CD servo control P. C. board, disconnect the card wire outgoing from the connector CN304 on the power amplifier P. C. board (See Fig. 5-7).
4. Disengage the left and right engagements ① and ② fixing the CD player unit by using a minus screw driver, etc. (See Figs. 5-7 and 5-8).

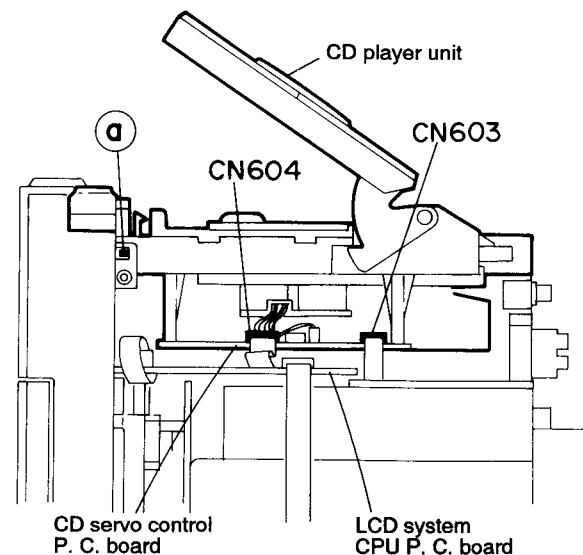


Fig. 5-7

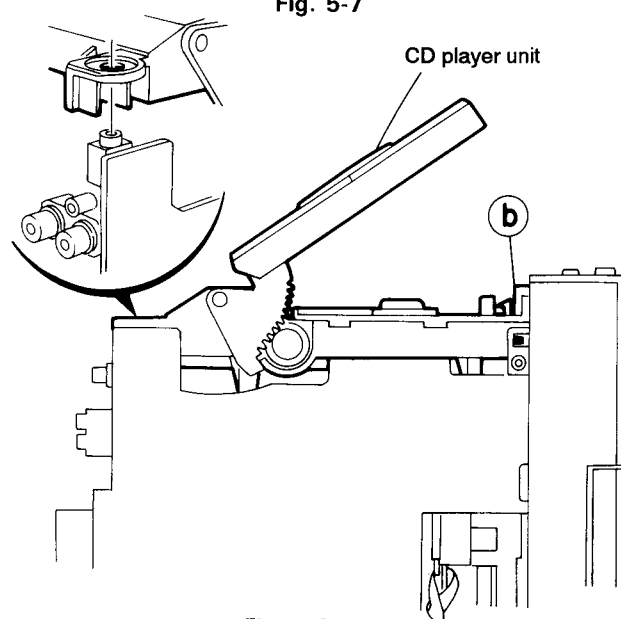


Fig. 5-8

■ Removing the power amplifier P. C. board and heat sink (See Figs. 5-9 and 5-10)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the five screws ④ and ⑤ retaining the heat sink (See Fig. 5-9).
5. From the connector CN303 on the power amplifier P. C. board, disconnect the card wire outgoing from the connector CN34 on the head amplifier & mechanism control P. C. board (See Fig. 5-9).
6. From the connector CN901 on the power supply board, disconnect the connector wire outgoing from the connector W306 on the power amplifier P. C. board (See Fig. 5-9).
7. Remove the one screw ⑥ retaining the power amplifier P. C. board (See Fig. 5-10).
8. Remove the power amplifier P. C. board from the two connectors CN711 and CN712 on the LCD system CPU P. C. board (See Fig. 5-9).
9. After removing the power amplifier P. C. board from the key way ③ on the bottom chassis, take this P. C. board out while raising it in the arrow direction (See Fig. 5-10).

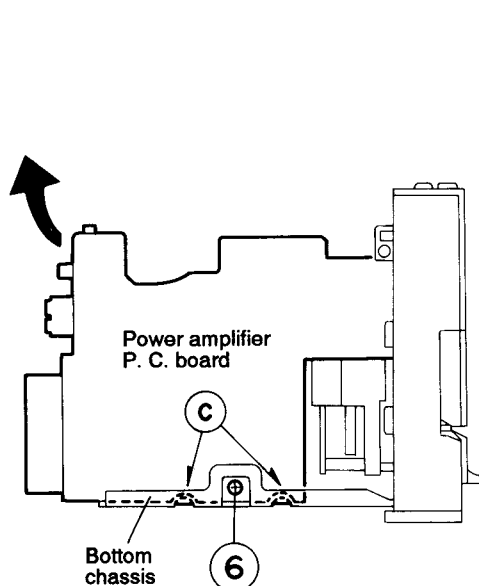


Fig. 5-10

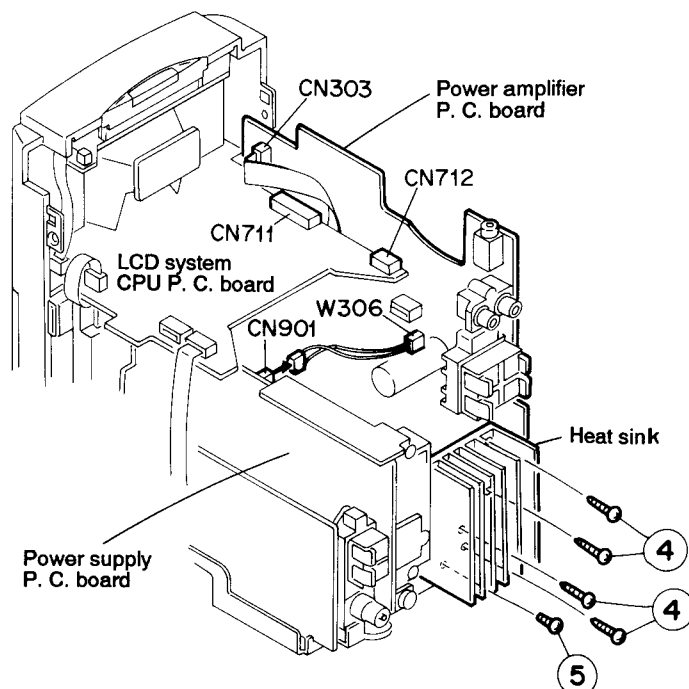
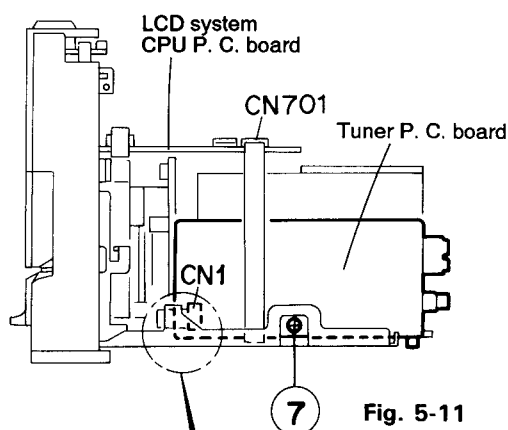


Fig. 5-9

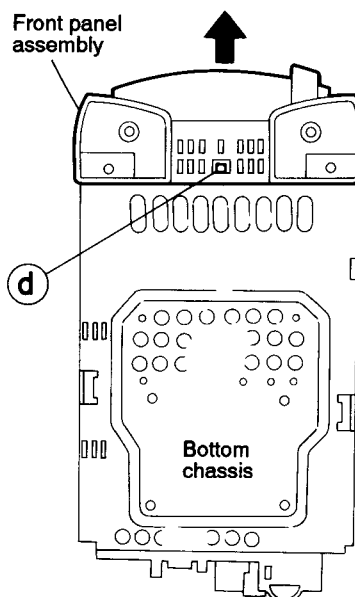
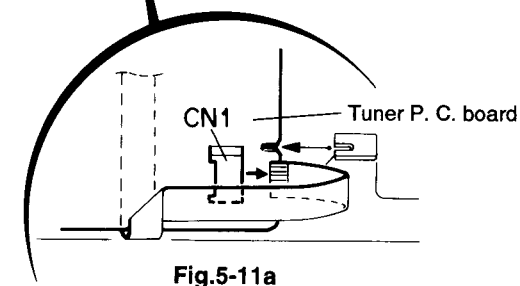
■ Removing the tuner P. C. board (See Fig. 5-11)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. From the right side of the body, remove the one screw ⑦ retaining the tuner P. C. board.
5. From the connector CN1 on the tuner P. C. board, disconnect the card wire outgoing from the connector CN701 on the LCD system CPU P. C. board.



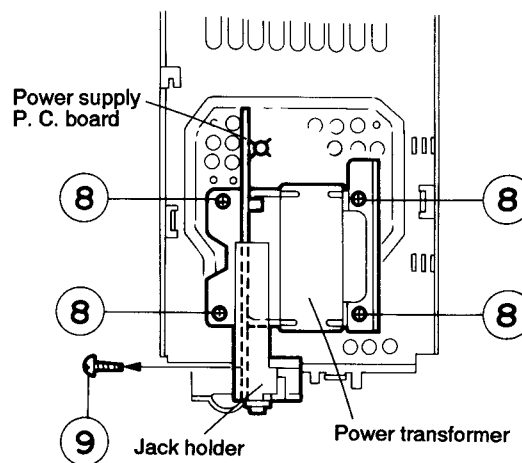
■ Removing the front panel assembly (See Fig. 5-12)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier assembly.
5. From the bottom of the body, disengage the engagement ④ fixing the front panel assembly in Fig. 5-12 while pressing it with a minus screw driver, etc.



■ Removing the power transformer and power supply P. C. board (See Fig. 5-13)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P. C. board and heat sink.
5. Remove the tuner P. C. board.
6. Remove the four screws ⑧ retaining the power transformer and power supply P. C. board and the one screw ⑨ retaining the jack holder.



■ Removing the cassette mechanism unit

(See Fig. 5-14)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P. C. board.
5. Remove the front panel assembly.
6. From inside the front panel assembly, remove the four screws ⑨ and ⑩ retaining the cassette mechanism unit.
7. From the connector CN33 on the head amplifier & mechanism control P. C. board, disconnect the card wire outgoing from the connector CN731 on the LCD system CPU P. C. board.

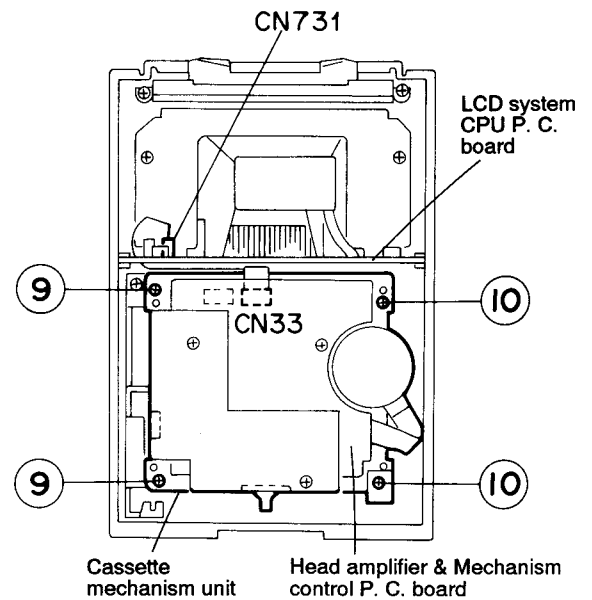


Fig. 5-14

■ Removing the function switch P. C. board and LCD system CPU P. C. board

(See Figs. 5-15 and 5-16)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. From inside the front panel assembly, remove the two screws ⑪ retaining the operating switch P. C. board.
7. From the connector CN782 on the LCD system CPU P. C. board, disconnect the connector wire outgoing from the connector CN802 on the operating switch P. C. board.
8. While sliding the two engagements ⑥ fixing the LCD system CPU P. C. board, pull out this P. C. board.
9. After disconnecting the connector CN801 on the function switch P. C. board from the connector CN781 on the LCD system CPU P. C. board, remove the respective P. C. boards while pulling them upward.

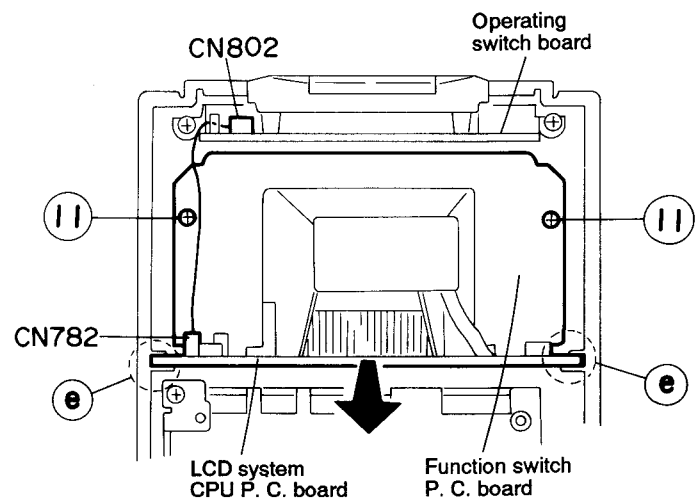


Fig. 5-15

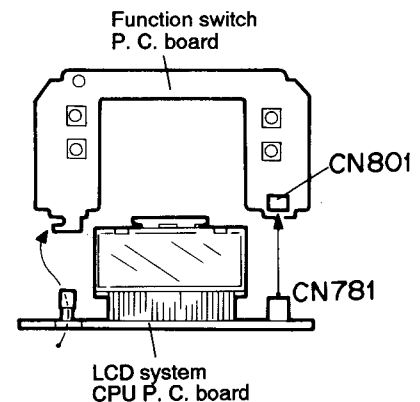


Fig. 5-16

■ Removing the operating switch P. C. board

(See Figs. 5-17 and 5-18)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. Remove the front panel assembly.
7. Remove the LCD system CPU P. C. board.
8. Remove the two screws ⑫ retaining the operating switch P. C. board.
9. Remove the [MULTI-JOG] button.
10. Remove the [VOLUME] and [POWER/AUX] buttons.
11. Take out the standby LED lens.
12. After removing the four pawls ⑨ fixing the operating switch P. C. board, remove the switch while pulling it in the arrow direction.
13. Remove the two screws ⑬ retaining the operating switch P. C. board.
14. Remove the six pawls ⑨ fixing the operating switch P. C. board.

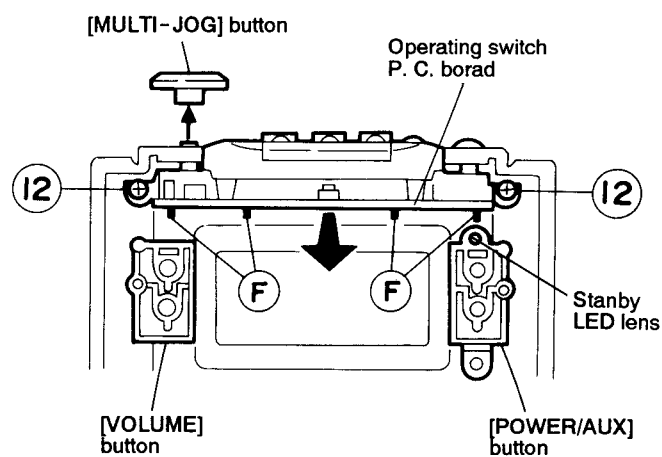


Fig. 5-17

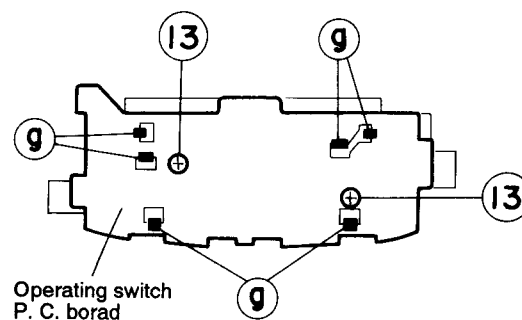


Fig. 5-18

《 Cassette Mechanism Section 》

■ Removing the Playback/Recording & Eraser Head

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction, turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 5-19).
2. When the flywheel R is rotated in counterclockwise direction, the playback/Recording & eraser head will be turned in counterclockwise direction from the position in Fig. 5-20 to that in Fig. 5-21.
3. At this position, disconnect the flexible P.C. board (outgoing from the playback/Recording & eraser head) from the connector CN31 on the head amplifier & mechanism control P.C. board.
4. After dismantling the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring ③ from behind the playback/Recording & eraser head.
7. Loosen the reversing azimuth screw retaining the playback/Recording & eraser head.
8. Take out the playback/Recording & eraser head from the front of the head mount.
9. The Playback/Recording & eraser head should also be removed similarly according to Steps 1~8 above.

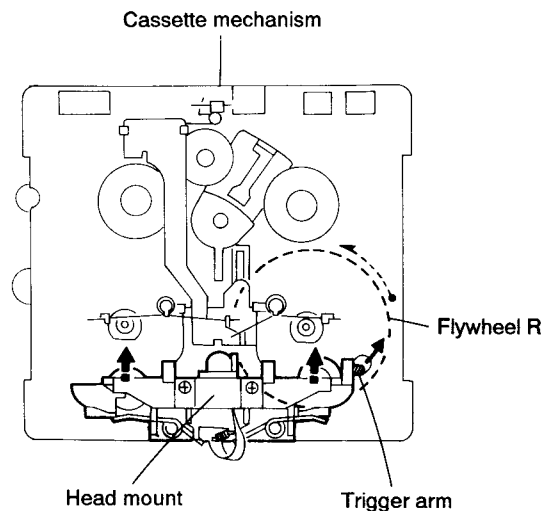


Fig. 5-19

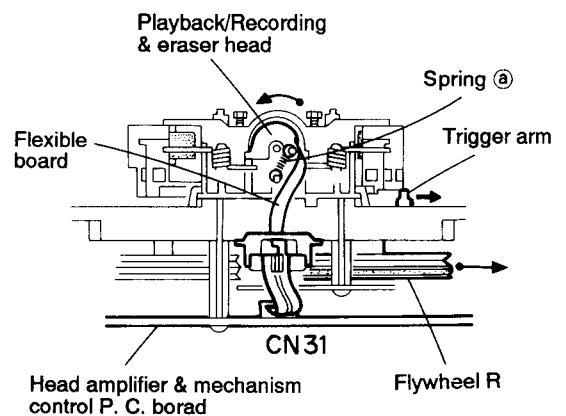


Fig. 5-20

● Reassembling the Playback/Recording & Eraser Head

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig. 5-21.
2. Fix the reversing azimuth screw.
3. Set the spring ③ from behind the playback/Recording & eraser head.
4. Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig. 5-21.
5. The Playback/Recording & eraser head should also be reassembled similarly according to Steps 1~4 above.

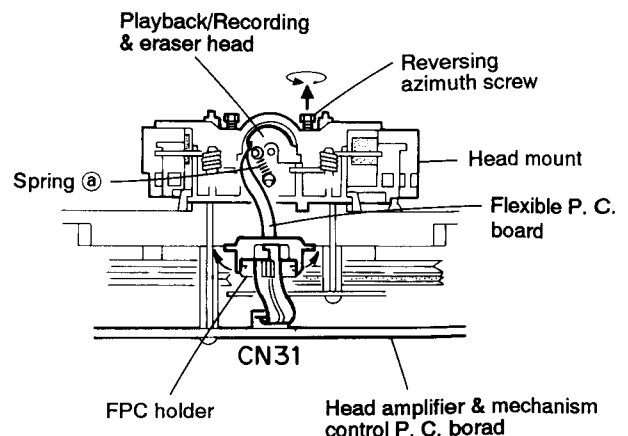


Fig. 5-21

■ Removing the Head Amplifier & Mechanism Control P.C. Board (See Fig. 5-22)

1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly, remove the three screws ① retaining the head amplifier & mechanism control P.C. board.
3. Disconnect the connector CN32 on the P.C. board including the connector CN1 on the reel pulse P.C. board.
4. When necessary, remove the 4pin parallel wire soldered to the main motor.

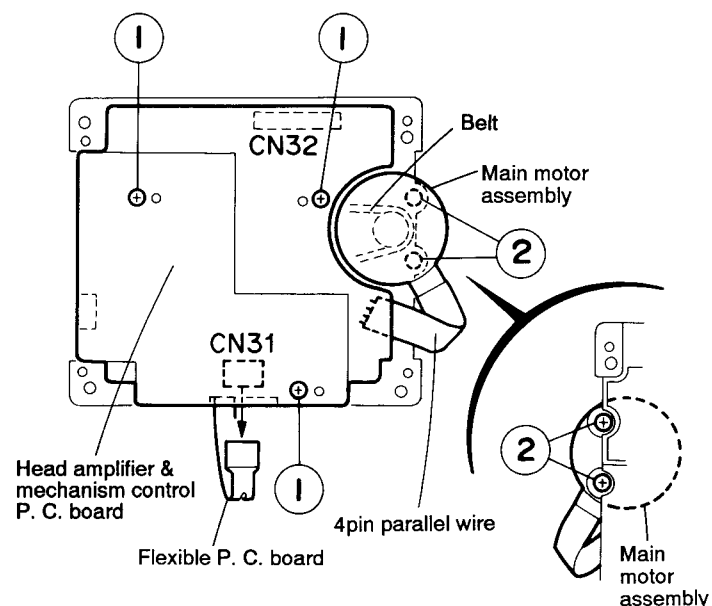


Fig. 5-22

■ Removing the Main Motor Assembly

1. Remove the two screws ② retaining the main motor assembly (See Fig. 5-22, 22a).
2. While raising the main motor, remove the capstan belt from the motor pulley (See Fig. 5-22a).

Caution 1: Be sure to handle the capstan belt so carefully that this belt will not be stained by grease and other foreign matter. Moreover, this belt should be hanged while referring to the capstan belt hanging method in Fig. 5-23, 24.

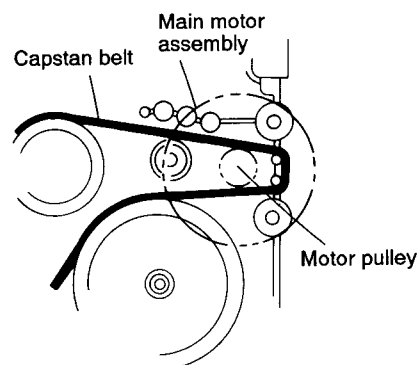


Fig.5-22a

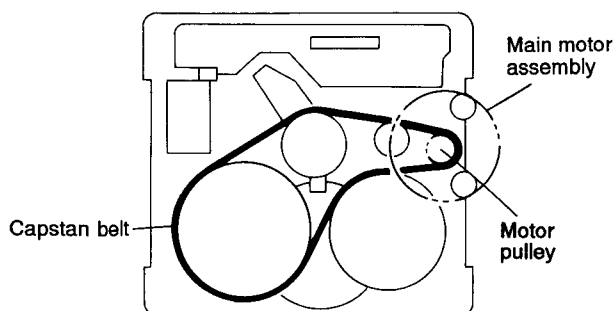


Fig. 5-23

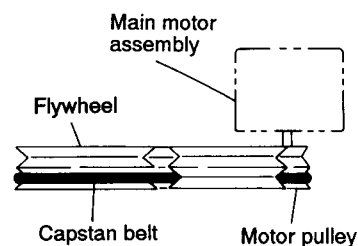


Fig. 5-24

■ Removing the Flywheel (See Figs. 5-25 and 5-26)

1. Remove the head amplifier & mechanism control P.C. board.
2. Remove the main motor assembly.
3. After turning over the cassette mechanism, remove the slit washers ⑥ and ⑦ fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

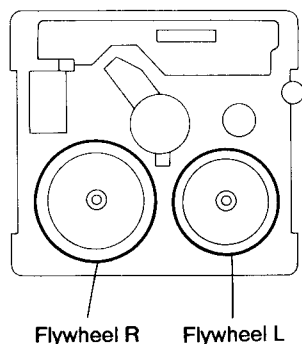


Fig. 5-26

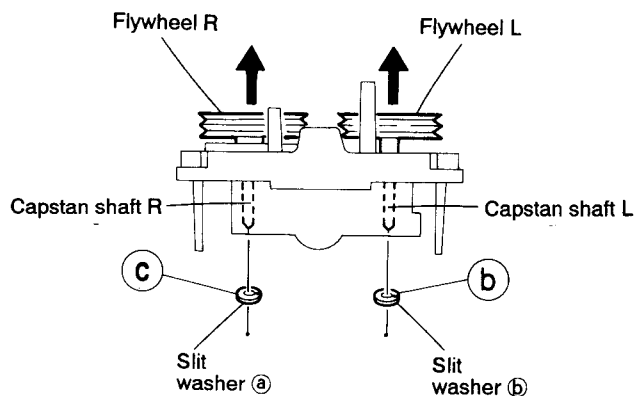


Fig. 5-25

■ Removing the Reel Pulse P.C. Board and Solenoid (See Fig. 5-27)

1. Remove the five pawls (④, ⑤, ⑥ and ⑧, ⑨) retaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pawls ⑩ and ⑪ retaining the solenoid.

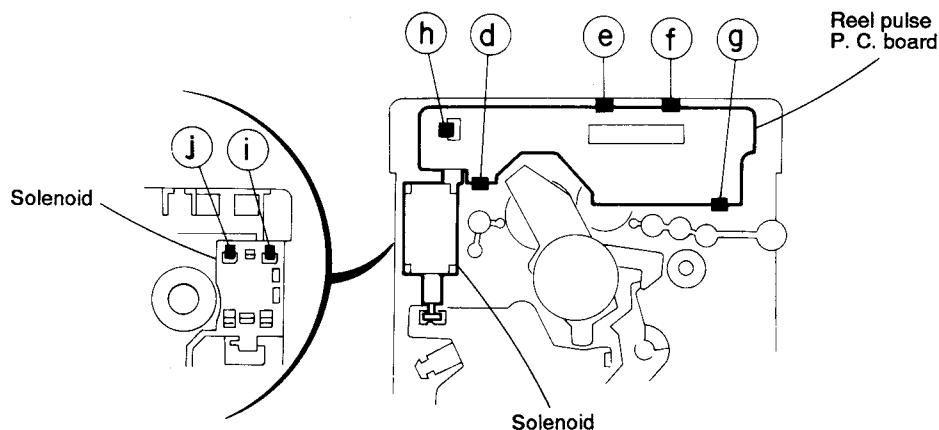


Fig. 5-27

《CD Player Unit Section》

■ Removing the CD mechanism and CD servo control P.C. board (See Figs. 5-28 and 5-29)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. After turning back the CD player unit, remove the four screws ① retaining the CD servo control P. C. board and shield.
5. From the connector CN601 on the CD servo control P. C. board, disconnect the card wire outgoing from the CD mechanism.
6. From the connector P011 on the CD mechanism P. C. board, disconnect the connector wire outgoing from the connector CN602 on the CD servo control P. C. board.
7. Remove the four screws ② retaining the CD mechanism.
8. While sliding the CD mechanism in the arrow direction, take turn table out so carefully that it does not come into contact with the chassis.

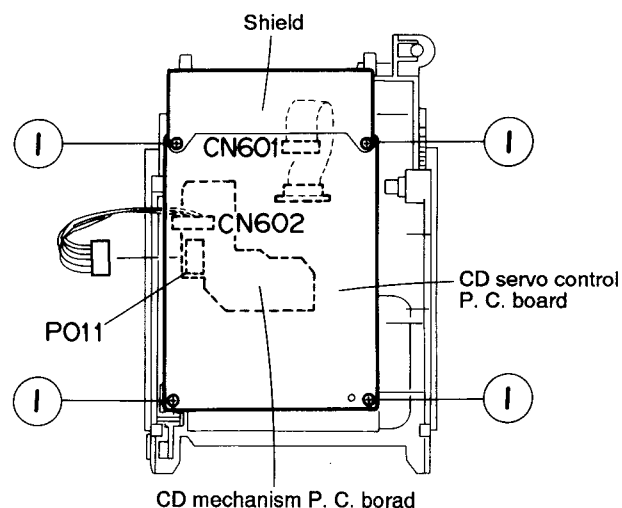


Fig. 5-28

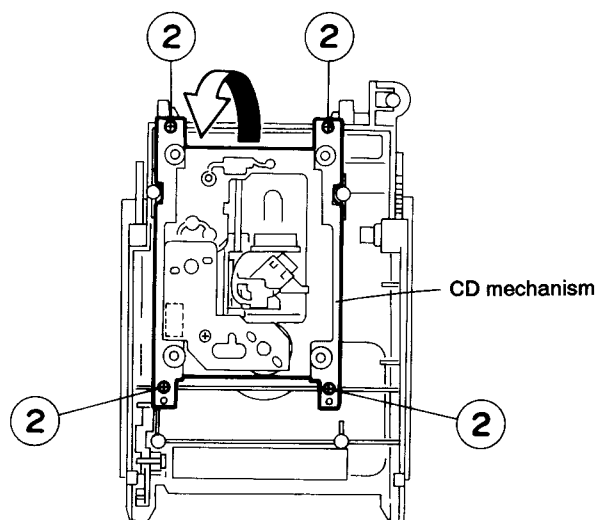


Fig. 5-29

6. Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator
This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz~20kHz.
2. Attenuator impedance: 600 Ω
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow & flutter meter
7. Test tape
VTT 712: Tape speed and running unevenness (3kHz)
VTT 724: Reference level (1kHz)
TMT 7036: Head angle (10kHz), playback frequency characteristics (1kHz) and dubbing frequency characteristics (63, 1 and 10kHz)
Because of frequency – mixed tape with 63, 1, 10 and 14kHz (250nWb/m – 24dB), use this tape together with a filter.
8. Blank tape
TYPE I : AC-225
TYPE II : AC-514
9. Torque gauge: For play and back tension
FWD (TW2111A), REV (TW2121A) and
FF/REW (TW2231A)

■ Measurement Conditions

Power supply voltage AC230V (50Hz)
Reference output Speaker: 0.775V/3 Ω
Headphone: 0.245V/32 Ω
Reference frequency and input level · 1kHz, AUX: – 8dBs
Input for confirming recording and playback characteristics AUX: – 28dBs
Measurement output terminal Speaker J3002
※ Load resistance 3 Ω

● Radio Input signal

AM frequency 400Hz
AM modulation factor 30%
FM frequency 400Hz
FM frequency deviation 22.5kHz

● Tuner section

Voltage applied to tuner +B: DC 5.7V
VT: DC 12V
Reference measurement output 26.1mV (0.28V)/3 Ω
Input positions AM: Standard loop antenna
FM: TP1 (hot) and TP2 (GND)

● Standard measurement positions of volume

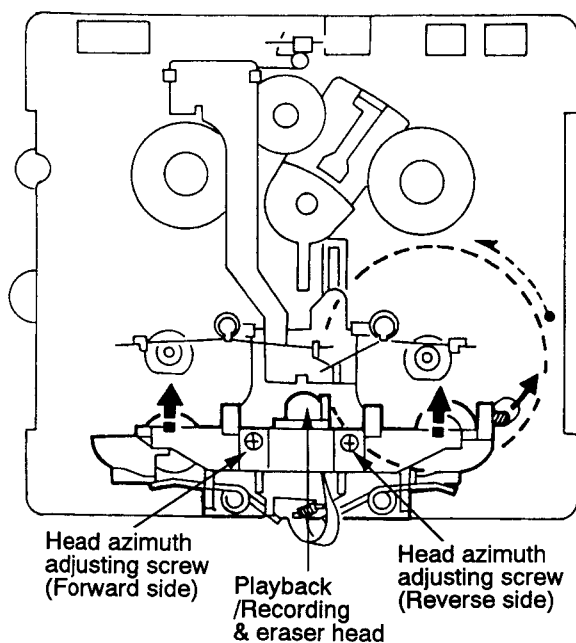
Bass Off
Active hyper bass pro Off
Up and down adjustment of volume VOL. 23

Precautions for Measurement

1. Apply 30pF and 33k Ω to the IF sweeper output side and 0.082 μ F and 100k Ω in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly carefully.
7. In the case of BTL connection amp., the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.
8. For connecting a dummy resistor when measuring the output, use the wire with a greater core size.
9. Whenever any mixed tape is used, use the band pass filter (DV-12).

《Arrangement of Adjusting Positions》

● Cassette mechanism section



● Cassette mechanism section (Back side)

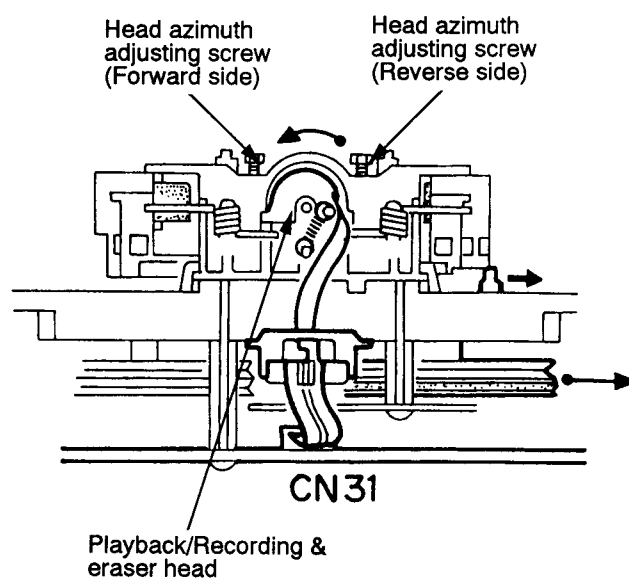


Fig. 6-1

● Front panel assembly Section

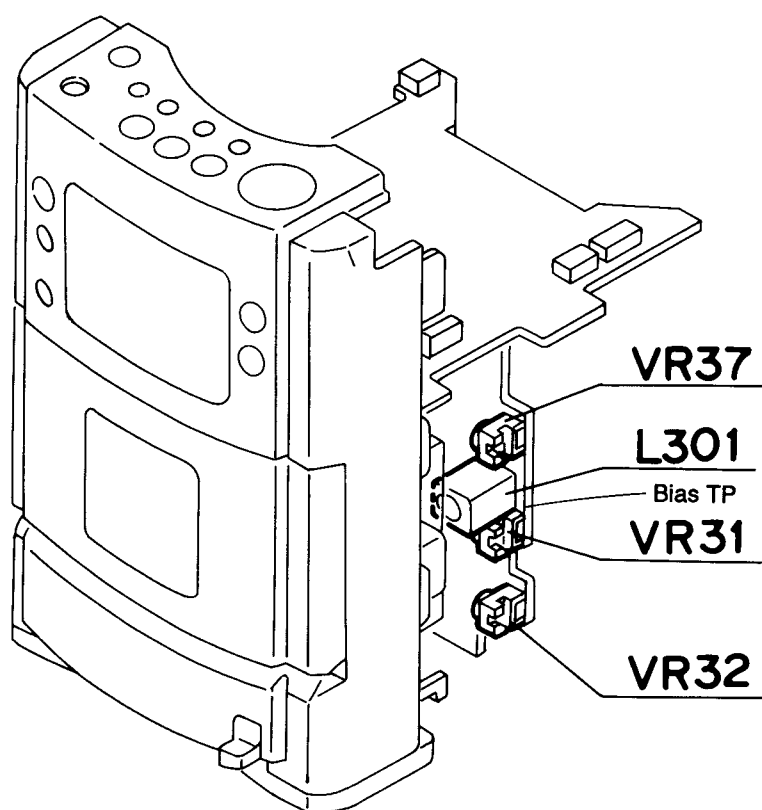


Fig. 6-2

■ Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Confirmation of head angle	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) : Headphone terminal	① Play back the test tape TMT7036 (10kHz). ② With the recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half a turn. ③ In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape : VTT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Headphone terminal	Adjust VR37 so that the frequency counter reading becomes 3,010Hz \pm 15Hz when playing back the test tape VTT712 (3kHz) with playback and recording mechanism after ending forward winding of the tape.	Tape speed of deck : 3,010Hz \pm 15Hz	VR37

■ Reference Values for Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Difference between the forward and reverse speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	6.0Hz or less	
Wow & flutter	Test tape : TMT7036 (10kHz) Measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of wow & flutter should be 0.25% or less (WRMS).	0.25% or less (WRMS)	

■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	<ul style="list-style-type: none"> Mode: Forward or reverse mode Recording mode Test tape : AC-514 to TYPE II and AC-225 to TYPE I Measurement output terminal : Both recording and headphone terminals 	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tapes (AC-514 to TYPE II and AC-225 to TYPE I), and set the mechanism to the recording and pausing conditions in advance. After connecting 100 Ω in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. After resetting the [PAUSE] mode, start recording. At this time, adjust VR31 for LcH and VR32 for RcH so that the recording bias current values become 4.0 μ A (TYPE I) and 4.20 μ A (TYPE II). 	AC-225 : 4.20 μ A AC-514 : 4.0 μ A	LcH : VR31 RcH : VR32
Adjustment of recording and playback frequency characteristics	Reference frequency : 1kHz and 10kHz (REF.: -20dB) Test tape : TYPE II : AC-514 Measurement input terminal : OSC IN	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tape (AC-514 to TYPE II), and set the mechanism to the recording and pausing conditions in advance. While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and play back the test tape. While recording and playing back the test tape in TYPE II, adjust VR31 for LcH and VR 32 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB \pm 2dB. 	Output deviation between 1kHz and 10kHz : -1dB \pm 2dB	LcH : VR31 RcH : VR32

■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Recording bias frequency	Forward or reverse <ul style="list-style-type: none"> Test tape : TYPE II (AC-514) Measurement terminal: BIAS TP on P.C. board 	<ol style="list-style-type: none"> While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. With the recording and playback mechanism, load the test tape (AC-514 to TYPE II), and set the mechanism to the recording and pausing conditions in advance. Confirm that the BIAS TP frequency on the P.C. board is 100kHz \pm 6kHz. 	100kHz \pm 6kHz	
Eraser current (Reference value)	Forward or reverse <ul style="list-style-type: none"> Recording mode Test tape : AC-514 to TYPE II and AC-225 to TYPE I Measurement terminal: Both of the eraser head terminals 	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tapes (AC-514 to TYPE II and AC-225 to TYPE I), and set the mechanism to the recording and pausing conditions in advance. After setting to the recording conditions, connect 1W in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminals. 	TYPE II : 120mA TYPE I : 75mA	

7. Out Line of Main IC

■ IC701: μ PD78064GF-091 (System CPU)

Pin No.	Symbol	BUP	I/O	Function
1	SDATA	H	I/O	Serial data (TUNER PLL / TAPE IC)
2	SCK	H	O	Serial clock (TUNER PLL / TAPE IC)
3	QRIN		I	CD Q code data
4	—		—	— (Not used)
5	SQCK	L	O	CD Q code data synchronizing clock
6	IC		—	Connected to Vss
7	X2		—	Main system clock: 4.19MHz
8	X1		I	Main system clock: 4.19MHz
9	Vdd		—	Power supply
10	XT1		I	Sub system clock: 32.768kHz
11	XT2		—	Sub system clock: 32.768kHz
12	RESET		I	Reset
13	REM		I	Remote control
14	RDCK		—	Not used
15	JOG1		I	JOG encoder 1
16	BEAT2	L	O	Main clock selection 2
17	BEAT1	L	O	Main clock selection 1
18	+BCTL	H	O	Switched 5V control ("H" = off at 5V)
19	$\overline{\text{XRST}}$	H	O	CD LSI reset
20	MCLK	L	O	CD LSI command clock
21	MDATA	L	O	CD LSI command data
22	MLD	L	O	CD LSI command load
23	$\overline{\text{PBMUTE}}$	L	O	Tape playback muting (Mute = "L")
24	STTA	L	O	Tape IC strobe
25	REEL		I	Tape end detection
26	$\overline{\text{F. AUX}}$	L	O	Function AUX (AUX = "L")
27	AVss		—	AD converter GND
28	CDSAFTY		I	CD abnormal voltage detection
29	DOOR/RST		I	[REST/CLOSE] switch
30	SAFETY1		I	Abnormal voltage detection 1
31	SAFETY0		I	Abnormal voltage detection 2
32	KEY1		I	Body key input 1
33	KEY0		I	Body key input 0 (including version selection)
34	TAPE0		I	TAPE SWITCH 0
35	TAPE1		I	TAPE SWITCH 1
36	AVdd		—	AD converter power supply with a same potential as that of Vdd
37	AVref		—	AD converter reference voltage: off at [SLOW] mode
38	BUP	H	I	Backup power supply decision ("H" = Backup)

Pin No.	Symbol	BUP	I/O	Function
39	F. TU	H	O	Function tuner (Tuner = "H")
40	Vss		—	GND
41	$\overline{\text{MPX}}$		I	FM stereo detection ("L" = Stereo)
42	PERIOD	L	O	Tuner PLL strobe
43	JOG2		I	JOG encoder 2
44	BASS	H	O	Bass control (PWM)
45	TRE	H	O	TRE control (PWM)
46	VOL	H	O	VOL. control (PWM)
47	$\overline{\text{AHB}}$	H	O	Active hyper bass ON/OFF (ON= "L"; OFF= "H")
48	$\overline{\text{SMUTE}}$	H	O	System muting (Muting = "L")
49	P. OUT	L	O	Power ON/OFF (Power ON = "H")
50	F. CD	H	O	Function CD (CD = "H")
51	COM0	L	O	LCD common 0
52	COM1	L	O	LCD common 1
53	COM2	L	O	LCD common 2
54	COM3	L	O	LCD common 3
55	BIAS	L	—	LCD bias voltage
56	VLC0		—	LCD bias voltage BIAS>VLC0>VLC1>VLC2
57	VLC1		—	LCD bias voltage
58	VLC2		—	LCD bias voltage
59	Vss		—	GND
60	S0	L	O	LCD segment 0
61	S1	L	O	LCD segment 1
62	S2	L	O	LCD segment 2
63	S3	L	O	LCD segment 3
64	S4	L	O	LCD segment 4
65	S5	L	O	LCD segment 5
66	S6	L	O	LCD segment 6
67	S7	L	O	LCD segment 7
68	S8	L	O	LCD segment 8
69	S9	L	O	LCD segment 9
70	S10	L	O	LCD segment 10
71	S11	L	O	LCD segment 11
72	S12	L	O	LCD segment 12
73	S13	L	O	LCD segment 13
74	S14	L	O	LCD segment 14
75	S15	L	O	LCD segment 15
76	S16	L	O	LCD segment 16

Pin No.	Symbol	BUP	I/O	Function
77	S17	L	O	LCD segment 17
78	S18	L	O	LCD segment 18
79	S19	L	O	LCD segment 19
80	S20	L	O	LCD segment 20
81	S21	L	O	LCD segment 21
82	S22	L	O	LCD segment 22
83	S23	L	O	LCD segment 23
84	S24	L	O	LCD segment 24
85	S25	L	O	LCD segment 25
86	S26	L	O	LCD segment 26
87	S27	L	O	LCD segment 27
88	S28	L	O	LCD segment 28

Pin No.	Symbol	BUP	I/O	Function
89	S29	L	O	LCD segment 29
90	S30	L	O	LCD segment 30
91	S31	L	O	LCD segment 31
92	S32	L	O	LCD segment 32
93	S33	L	O	LCD segment 33
94	S34	L	O	LCD segment 34
95	S35	L	O	LCD segment 35
96	S36	L	O	LCD segment 36
97	S37	L	O	LCD segment 37
98	S38	L	O	LCD segment 38
99	S39	L	O	LCD segment 39
100	STAT	L	I	CD LSI status

■ IC38: BH3852S (Electrical Volume)

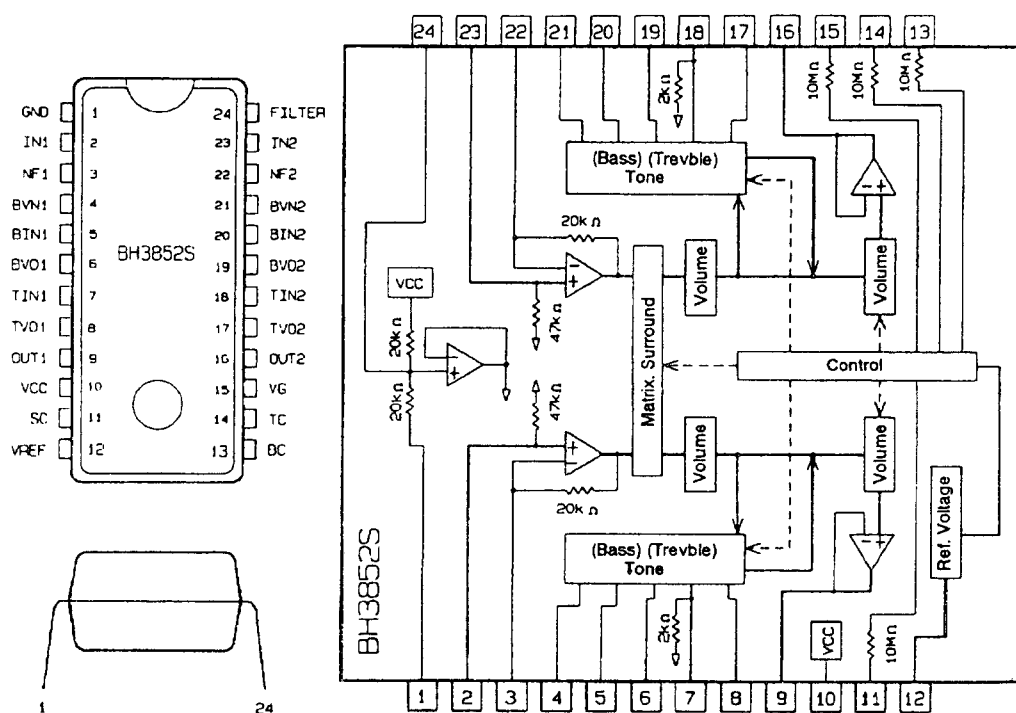


Fig. 7-1

8. Wiring Connections

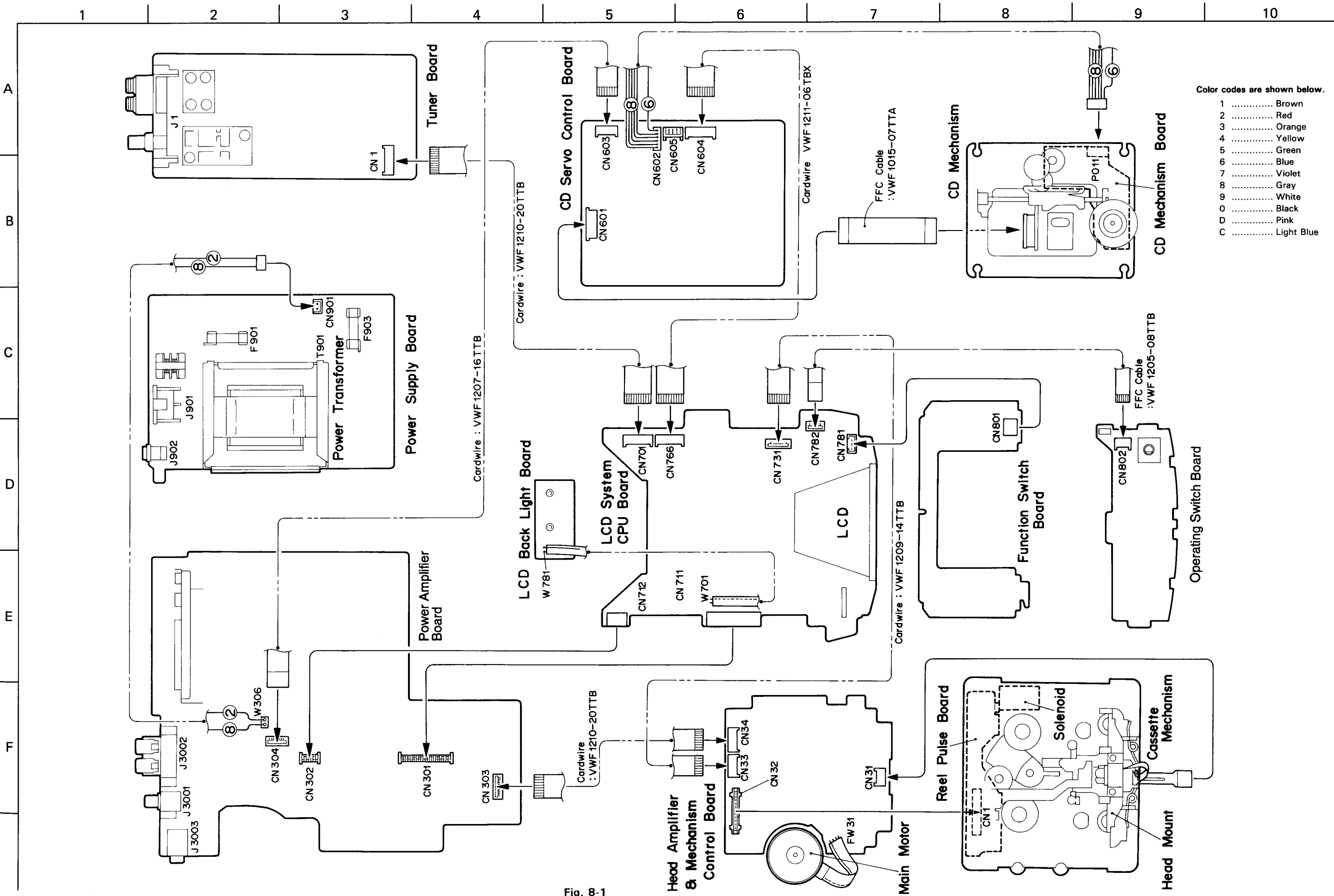
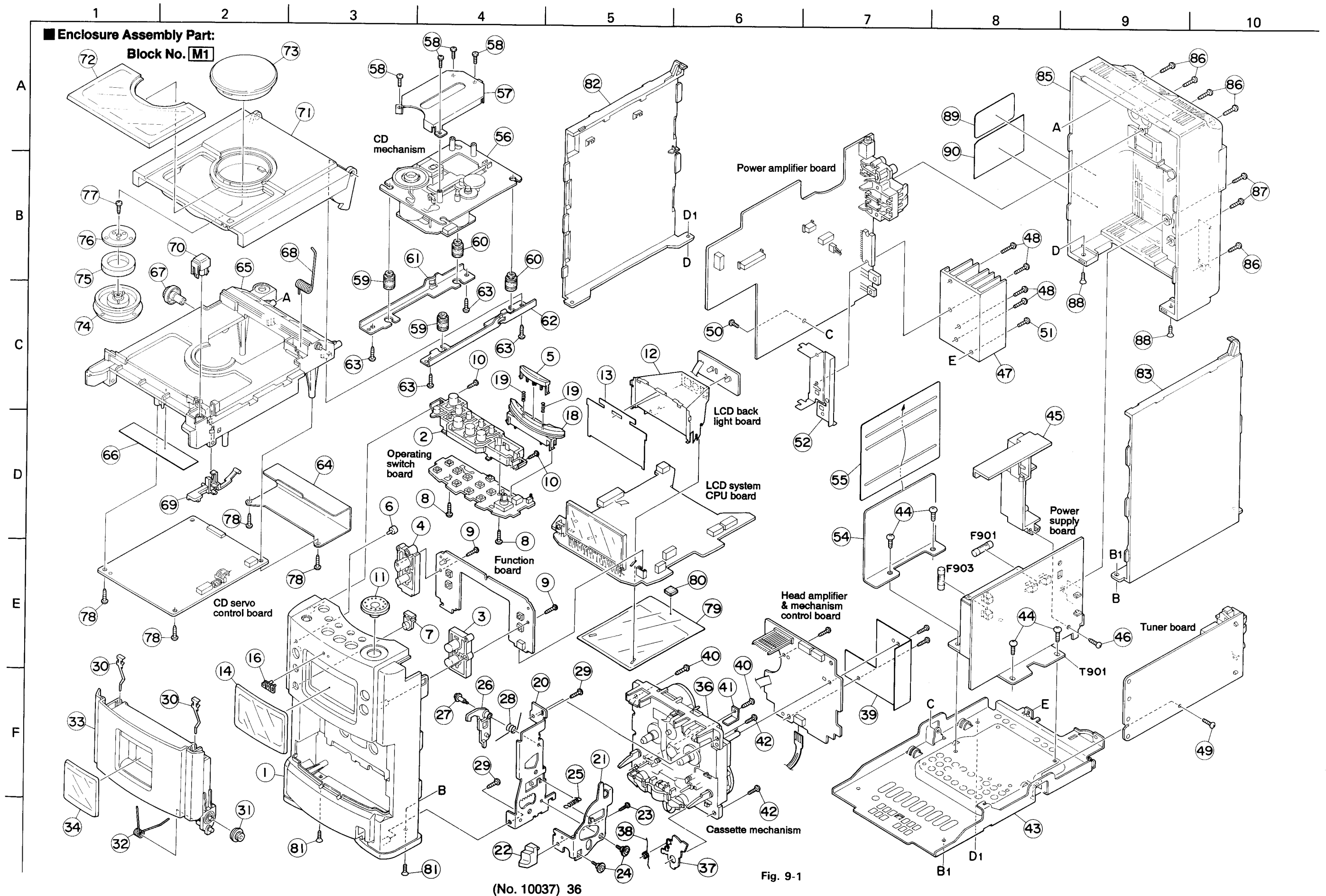


Fig. 8-1

9. Analytic Drawing and Parts List



■ Enclosure Assembly Parts List

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1473-001	FRONT PANEL		1		
	2	VXP3867-001	PUSH BUTTON(A)		1		
	3	VXP5352-001	PUSH BUTTON(B)		1		
	4	VXP5353-001	PUSH BUTTON(C)		1		
	5	VXP5358-001	SNOOZE BUTTON		1		
	6	VJK4493-001SC	LENS(STANDBY)		1		
	7	VJK4504-001	REMOCON LENS		1		
	8	SBSF2608Z	SCREW	FOR F.P+PWB	2		
	9	SBSF3008Z	SCREW	BUTTON+PWB	2		
	10	SBSF2608Z	SCREW	FOR F.P+BUTTON	2		
	11	VXL4453-001	MULTI JOG DIAL		1		
	12	VYH3982-001	LAMP CASE		1		
	13	VYTT704-001	LCD FILTER	FOR LCD	1		
	14	VJT4241-001	LCD LENS		1		
	16	E406971-221	JVC MARK		1		
	18	VYH8160-001	BUTTON COVER		1		
	19	VKW5306-001	COMP.SPRING		2		
	20	VYH3983-001	DOOR HOLDER		1		
	21	VYH8149-001	EJECT LEVER		1		
	22	VXQ4125-001	EJECT KNOB		1		
	23	SBSF2608Z	SCREW	FOR E.LVR+E.KNO	1		
	24	VKZ4323-002	SCREW	D.HOLDER+E.LEVE	2		
	25	VKW3002-274	TENSION SPRING	FOR E.LEVER	1		
	26	VYH7347-001	EJECT ARM		1		
	27	VKZ4341-001	SPECIAL SCREW	FOR EJECT ARM	1		
	28	VKW4938-001	TORTION SPRING	FOR EJECT ARM	1		
	29	SBSF3008Z	SCREW	F.P+D.HOLDER	2		
	30	VKY4180-001	CASSETTE SPRING		2		
	31	VYH5601-001	GEAR		1		
	32	VKW5295-001	DOOR SPRING		1		
	33	VJT2384-001	CASSETTE DOOR		1		
	34	VJT4242-001	DOOR LENS		1		
	36	-----	CASSETTE MECH		1		
	37	VKL7850-202	EJECT SAFTY(R)		1		
	38	VKW5258-002	TORSION SPRING		1		
	39	VMA4723-001	SHIELD		1		
	40	SBSF3010Z	SCREW	F.PANEL+MECHA	2		
	41	VYH8183-001	BRACKET	FOR CASSETTE DO	1		
	42	SBST3008Z	SCREW	DOOR HOL+MECHA	2		
	43	VYH1263-001	BOTTOM CHASSIS		1		
	44	SBST4006Z	SCREW	CHASSIS+TRANS	4		
	45	VYH3984-001	JACK HOLDER		1		
	46	SBSF3010Z	SCREW	PWB+JACK HOL	1		
	47	VYH8153-001	RADIATION		1		
	48	SBST3012Z	SCREW	RADI+IC	4		
	49	SBST3006Z	SCREW	RADI+CHASSIS	1		
	50	SBST3006Z	SCREW	MAIN PWB+CHASSI	1		
	51	SBST3006Z	SCREW	TUNER PWB+CHASS	1		
	52	VYH3987-001SC	IC HOLDER		1		
	54	VMA3239-001	SHIELD		1		
	55	VMA4720-001	BARRIER		1		
	56	-----	C.D MECHA ASS'Y		1		
	57	VJD5410-005	PICK COVER		1		
	58	SDSF2006M	SCREW	CD MECHA+P.COVE	4		
	59	E75609-001	INSULATOR	BLACK	2		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
60	E75609-002	INSULATOR	GRAY	2		
61	VYH8089-001SC	CD MECHA HOLDER	L	1		
62	VYH8089-002SC	CD MECHA HOLDER	R	1		
63	SBSF3010Z	SCREW	CD CASE+M.HOLDE	4		
64	VMA4692-002SC	SHIELD	FOR CD MECHA WI	1		
65	VJD1216-001	CD CASE		1		
66	E406709-001	LASER CAUTION		1		
67	VYH4769-002	GEAR		1		
68	VKW5276-001	CD DOOR SPRING		1		
69	VYH8152-001	LOCK LEVER		1		
70	VXP5354-001	CD EJECT KNOB		1		
71	VJT2385-001	CD DOOR		1		
72	VJT3392-001	CD LENS		1		
73	VJT4245-001	CD ORNAMENT		1		
74	VYH3726-002SS	CLAMPER		1		
75	VYH7313-003	MAGNET		1		
76	VYH7677-201	YOKE		1		
77	SDSF2606Z	SCREW	FOR CLAMPER	1		
78	SBSF3010Z	SCREW	CD PWB+CD CASE	4		
79	VMA4721-002	SHIELD		1		
80	PU59915-105	SPACER	FOR SHIELD	1		
81	SSST3008Z	SCREW	CHASSIS+F.PANEL	2		
82	VJD2488-001	SIDE PANEL(L)		1		
83	VJD2489-001	SIDE PANEL(R)		1		
85	VJG1477-010	REAR PANEL		1		
86	SBSF3010Z	SCREW	JACK+R.P	5		
87	SBSF3010Z	SCREW	R.P+CD CASE	2		
88	SSST3008Z	SCREW	FOR R.P+CHASSIS	2		
89	E70891-001	CLASS 1 LABEL		1		
90	VYN9316-C005T	NAME PLATE		1	E	
	VNY9316-C002T	NAME PLATE		1	B	
	VYN9316-C008T	NAME PLATE		1	G	
	VYN9316-C009T	NAME PLATE		1	EN	
F 901	QMF51E2-R40SBS	FUSE		1		
F 903	QMF51E2-5R0	FUSE		1		
T 901	VTP66J2-12L	POWER TRANS		1		

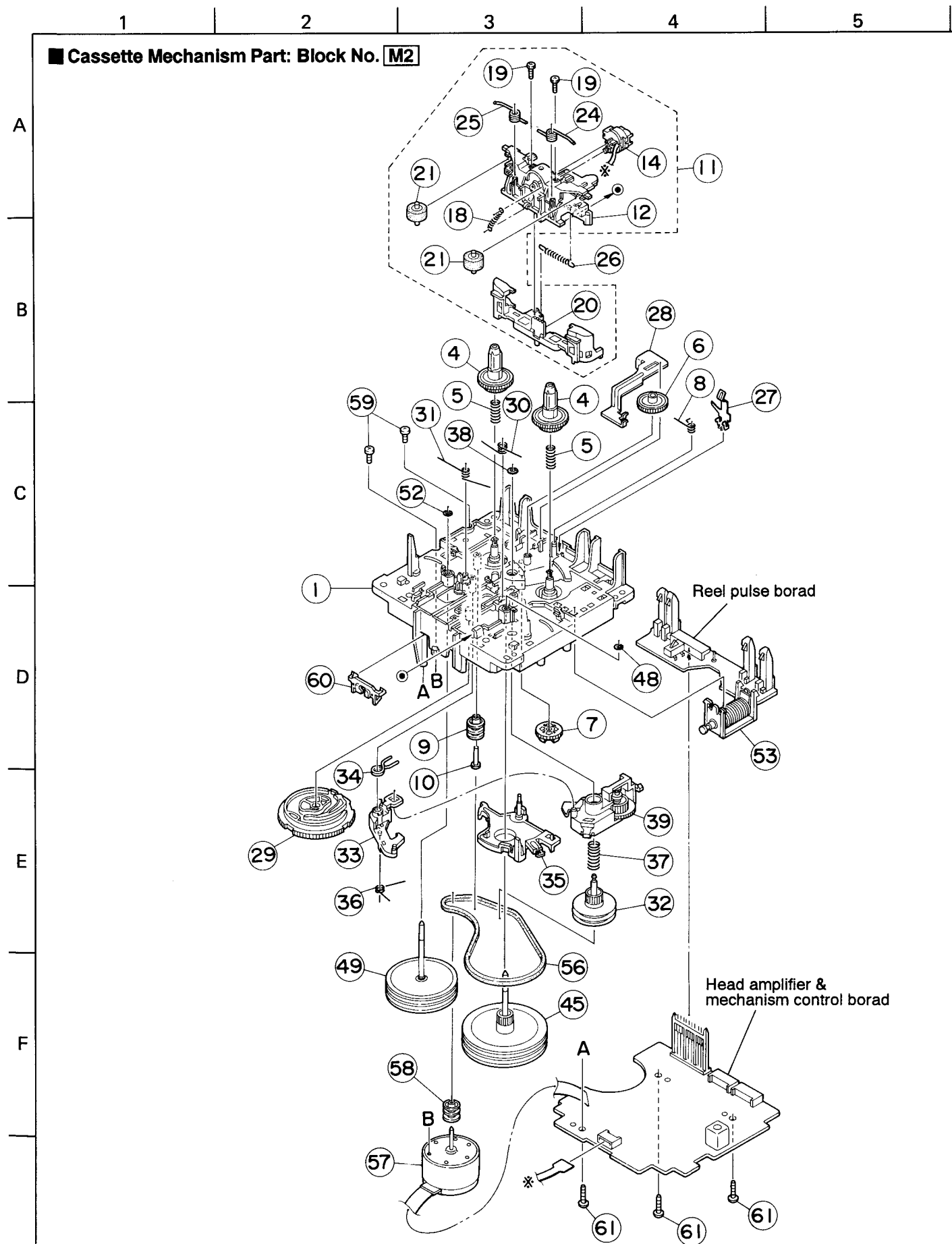


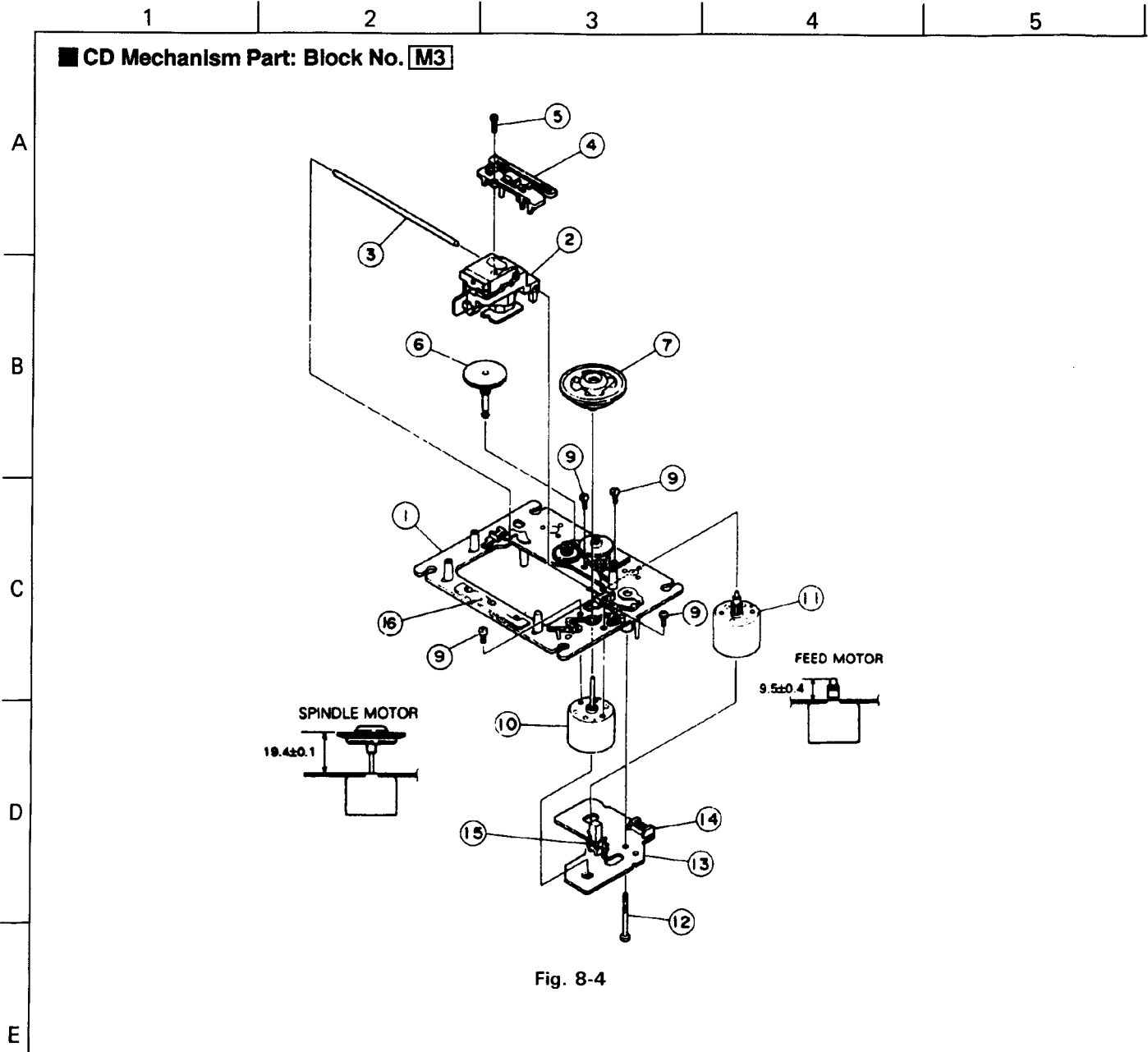
Fig. 9-2

■ Cassette Mechanism Parts List

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VKS1165-00C	CHASSIS B. ASSY		1		
4	VKS2274-002	REEL GEAR		2		
5	VKW5286-002	B.T. SPRING		2		
6	VKS5559-001	PLAY IDLE GEAR		1		
7	VKS5560-001	FR IDLE GEAR		1		
8	VKW5296-001	EARTH SPRING		1		
9	VKR4749-002	IDLE PULLEY		1		
10	VKH5786-002	SHAFT		1		
11	VKS2275-00C	HEAD MOUNT ASSY		1		
12	VKS1167-001	HEAD MOUNT BASE		1		
14	VGH0425-544	HEAD HOLDER ASY	VKS2275-00B	1		
18	VKW5302-001	HEAD SPRING		1		
19	VKZ4730-001	SPECIAL SCREW		2		
20	VKS2277-005	DIRECTION LEVER		1		
21	VKP4233-00A	PINCH ROL. ASSY		2		
24	VKW5299-001	PIN.ROL.SP.(R)		1		
25	VKW5300-001	PIN.ROL.SP.(L)		1		
26	VKW5285-001	RETURN SPRING		1		
27	VKY3149-001	CASSETTE SP.		1		
28	VKM3906-002	PLAY SW.LEVER		1		
29	VKS1166-001	CONTROL CAM		1		
30	VKW5279-001	HEAD BASE SP(R)		1		
31	VKW5280-001	HEAD BASE SP(L)		1		
32	VKR3199-001	MAIN PULLEY		1		
33	VKS3785-001	FR ARM		1		
34	VKW5284-002	SWING SPRING		1		
35	VKS2278-001	TRIGGER ARM		1		
36	VKW5301-001	FR SPRING		1		
37	VKW5266-001	ELEVATOR SPRING		1		
38	WDL214025	WASHER		1		
39	VKS3786-00D	CLUTCH ASSY		1		
45	VKF3205-00B	F.WHEEL ASSY(R)		1		
48	WDL183525-6	SLIT WASHER		1		
49	VKF3207-00B	F.WHEEL ASSY(L)		1		
52	WDL173525-2	SLIT WASHER		1		
53	VGP2401-00A	DC SOLENOID		1		
56	VKB3000-178	CAPSTAN BELT		1		
57	MSI-5U2LWA	D.C.MOTOR ASS'Y		1		
58	VKR4761-001	MOTOR PULLEY		1		
59	SPSP2604Z	SCREW		2		
60	VKS5577-001	FPC HOLDER		1		
61	SBSF2608Z	SCREW		3		

10. Block Diagram



CD Mechanism Parts List

BLOCK NO. M4MM						
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	EPB-002A	BASE ASS'Y		1		
2	OPTIMA-6S	PIC-UP		1		
3	E406777-001	GUIDE SHAFT		1		
4	E307746-001	CD RACK		1		
5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
6	EPB-003A	MECHA GIAR		1		
7	E75807-301	CD T.TABLE ASSY		1		
9	SDSP2003N	SCREW	FOR MOTOR	4		
10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
12	E75832-001	S.SCREW	M.REAF SWITCH	1		
13	EMW10190-001	BOARD	LEAF SWITCH	1		
14	EMV5109-006B	6P PLUG ASSY		1		
15	ESB1100-005	LEAF SWITCH		1		
16	E407212-001	DAMPER		1		

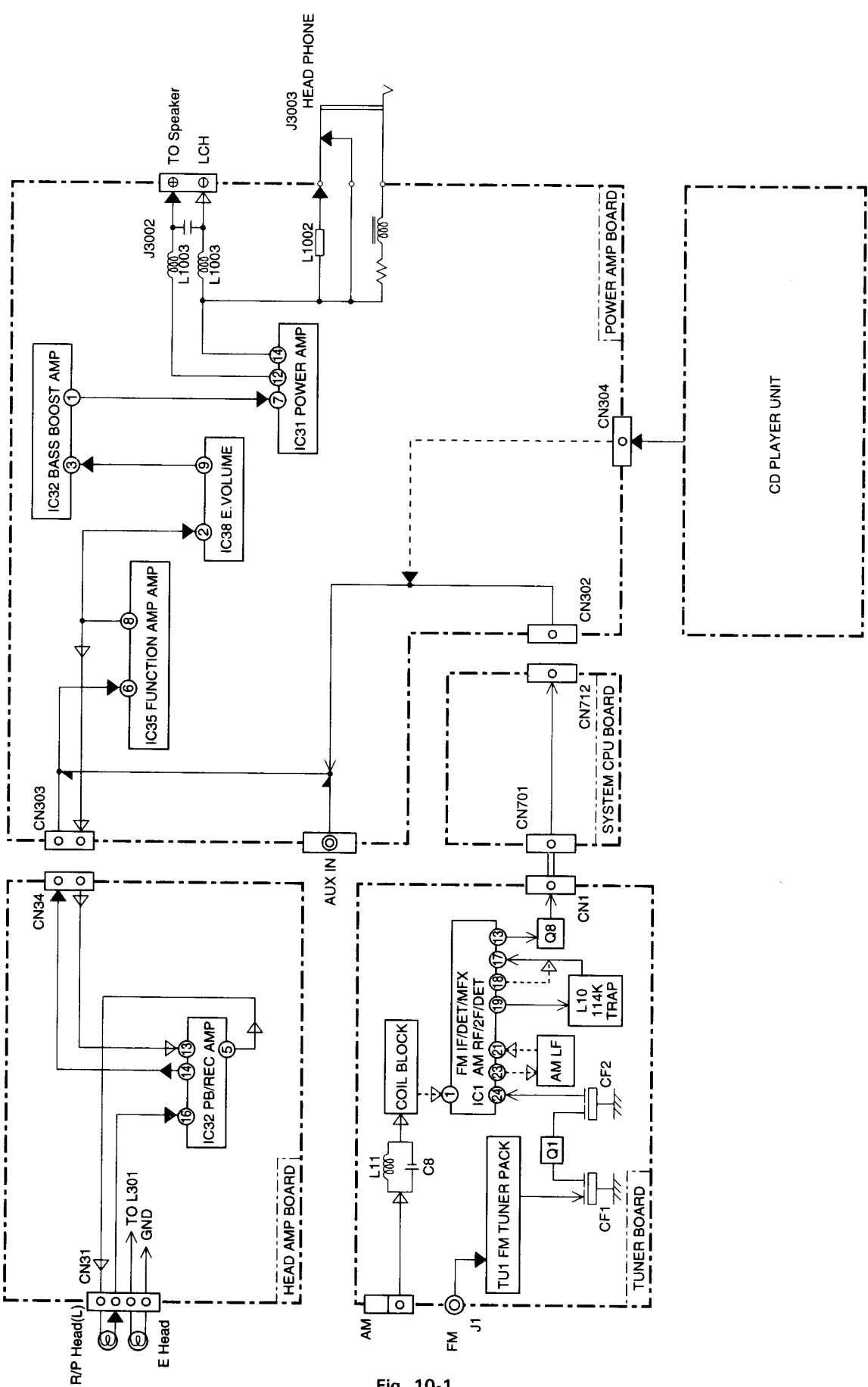
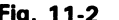


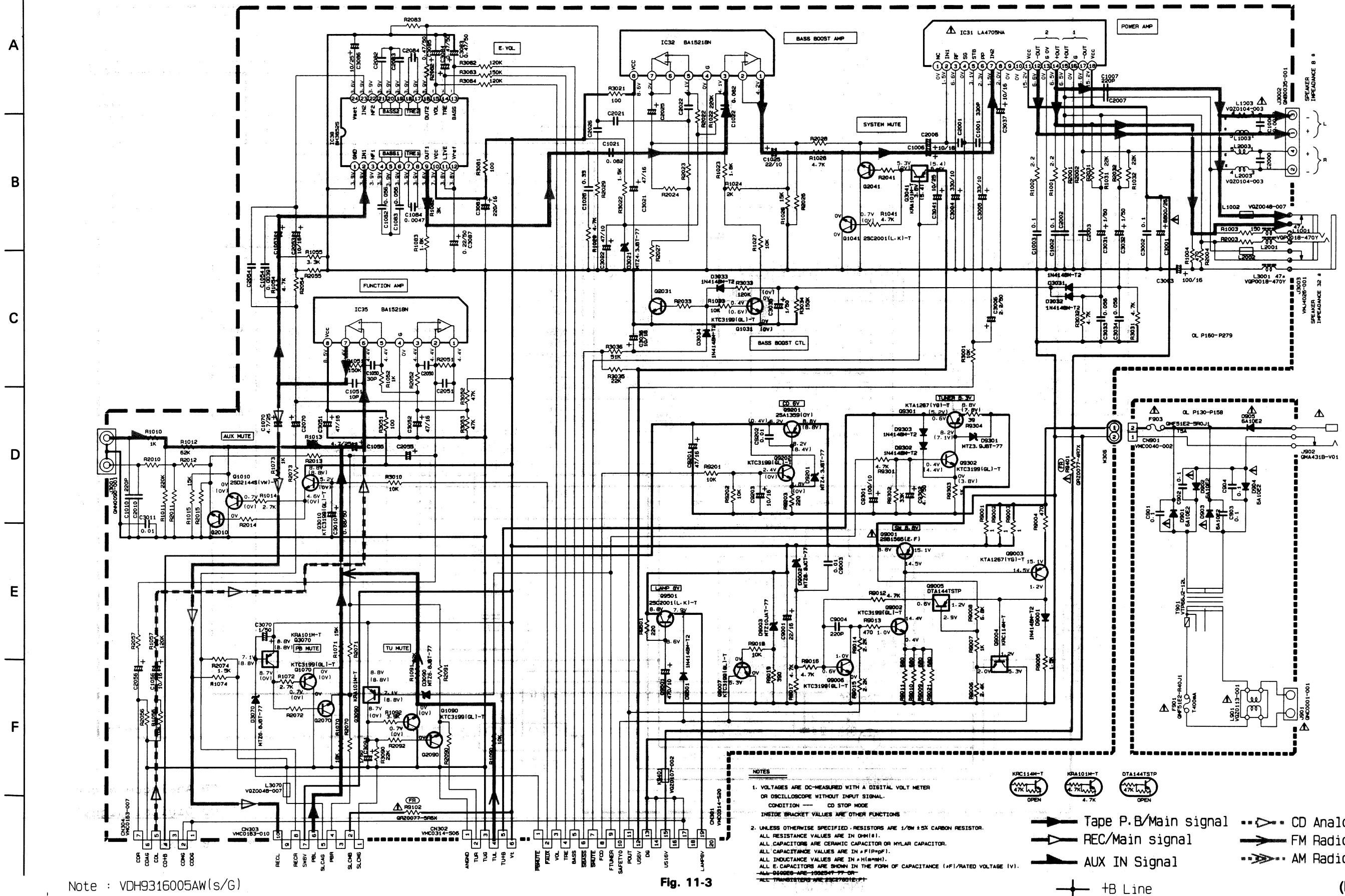
Fig. 11-1

F



File name R931601SV

Function Amplifier & Power Amplifier Circuit: Drawing No. VDH9316-005AW



UX - T100TN B/E/EN/G

UX - T100TN B/E/EN/G

CD Servo Control Circuit: Drawing No. VDH1010-001CW

A

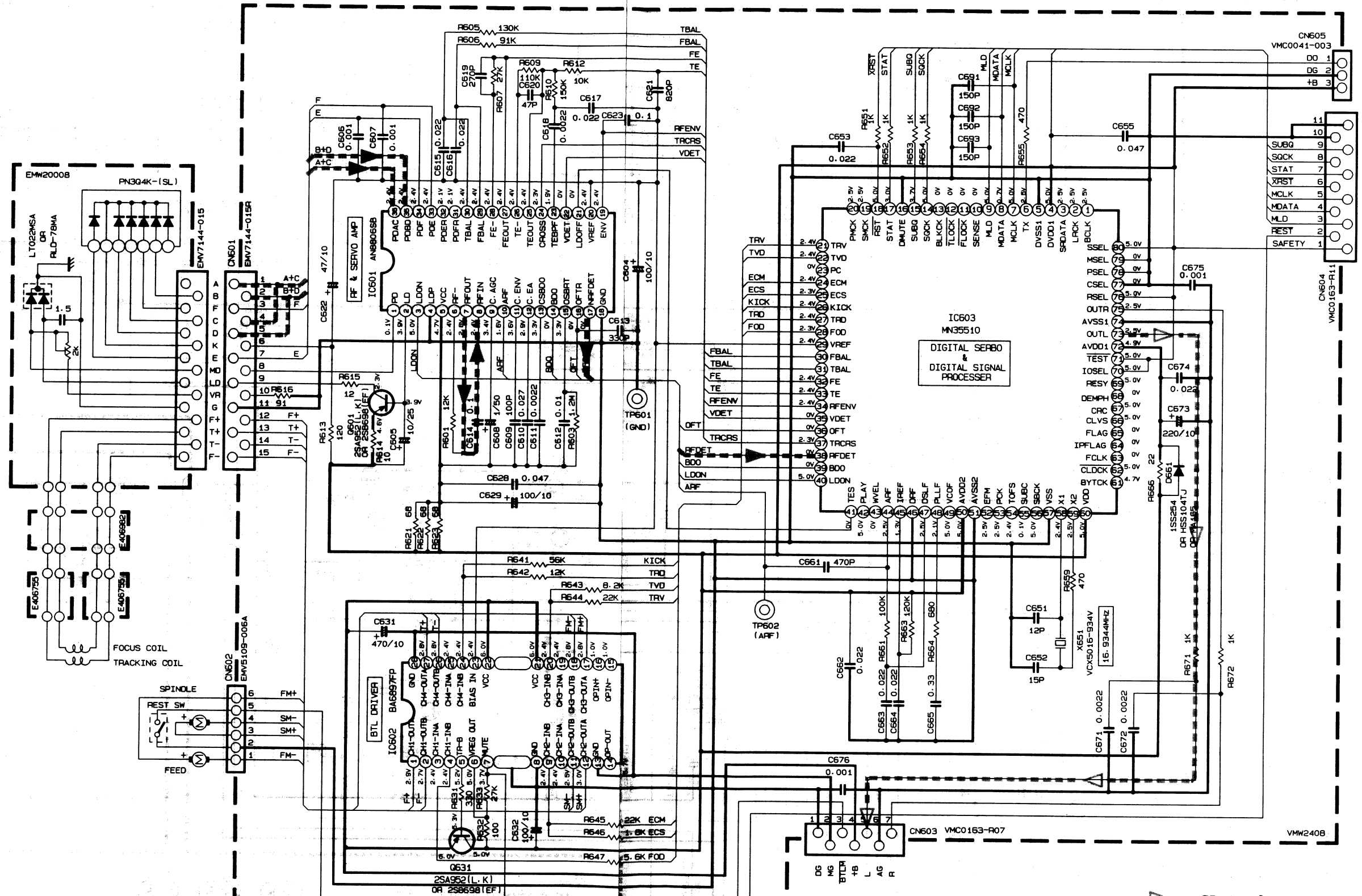
B

C

D

E

F



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W $\pm 5\%$ CARBON RESISTOR.
- ALL RESISTANCE VALUES ARE IN OHM(S).
- ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
- ALL CAPACITANCE VALUES ARE IN P(F) (P=PF).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (P/F)/RATED VOLTAGE (V).

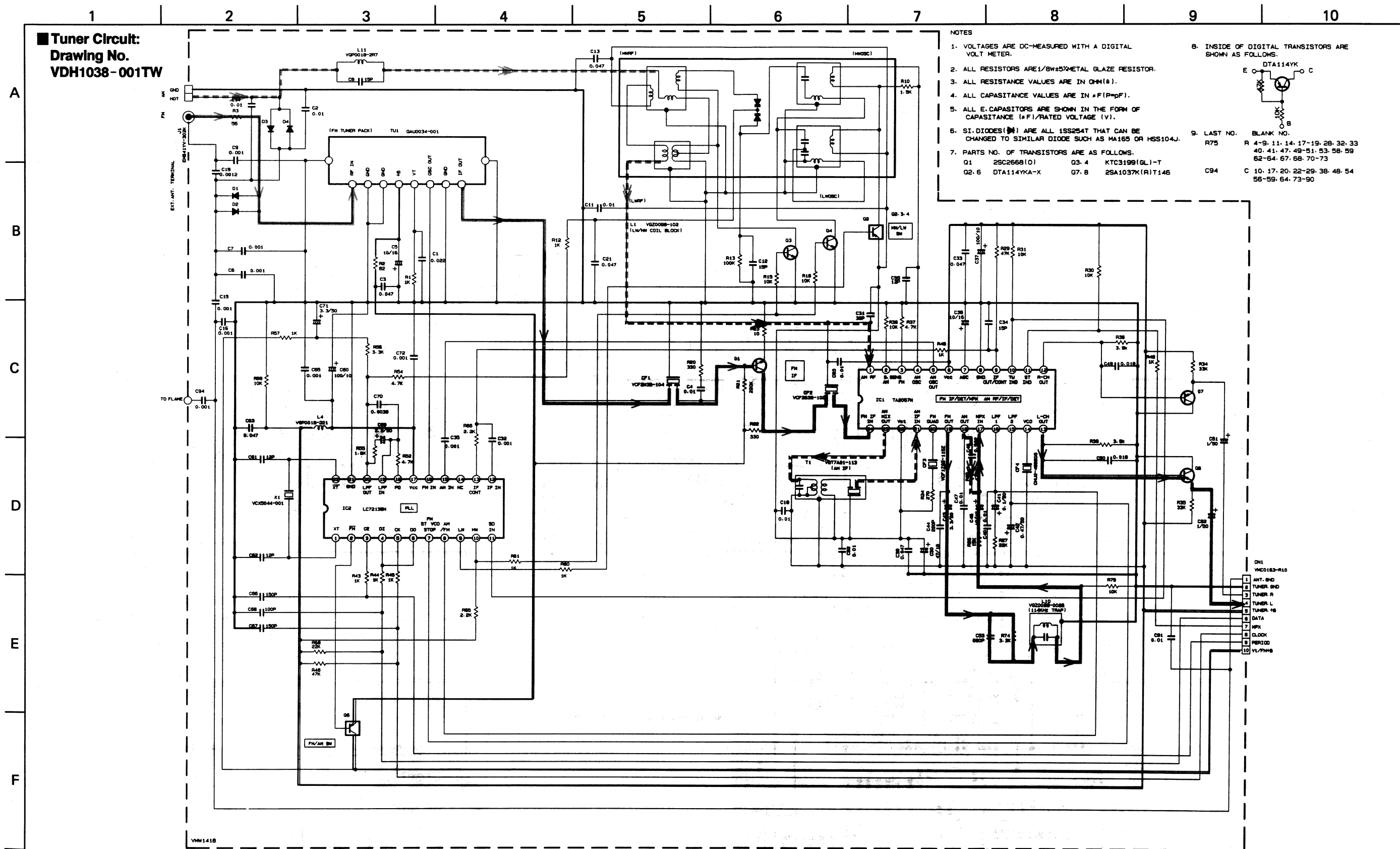
Fig. 11-4

(No. 10037) 44

Note : VDH1010001CW

---> CD Analogue signal
 ---> CD Digital signal

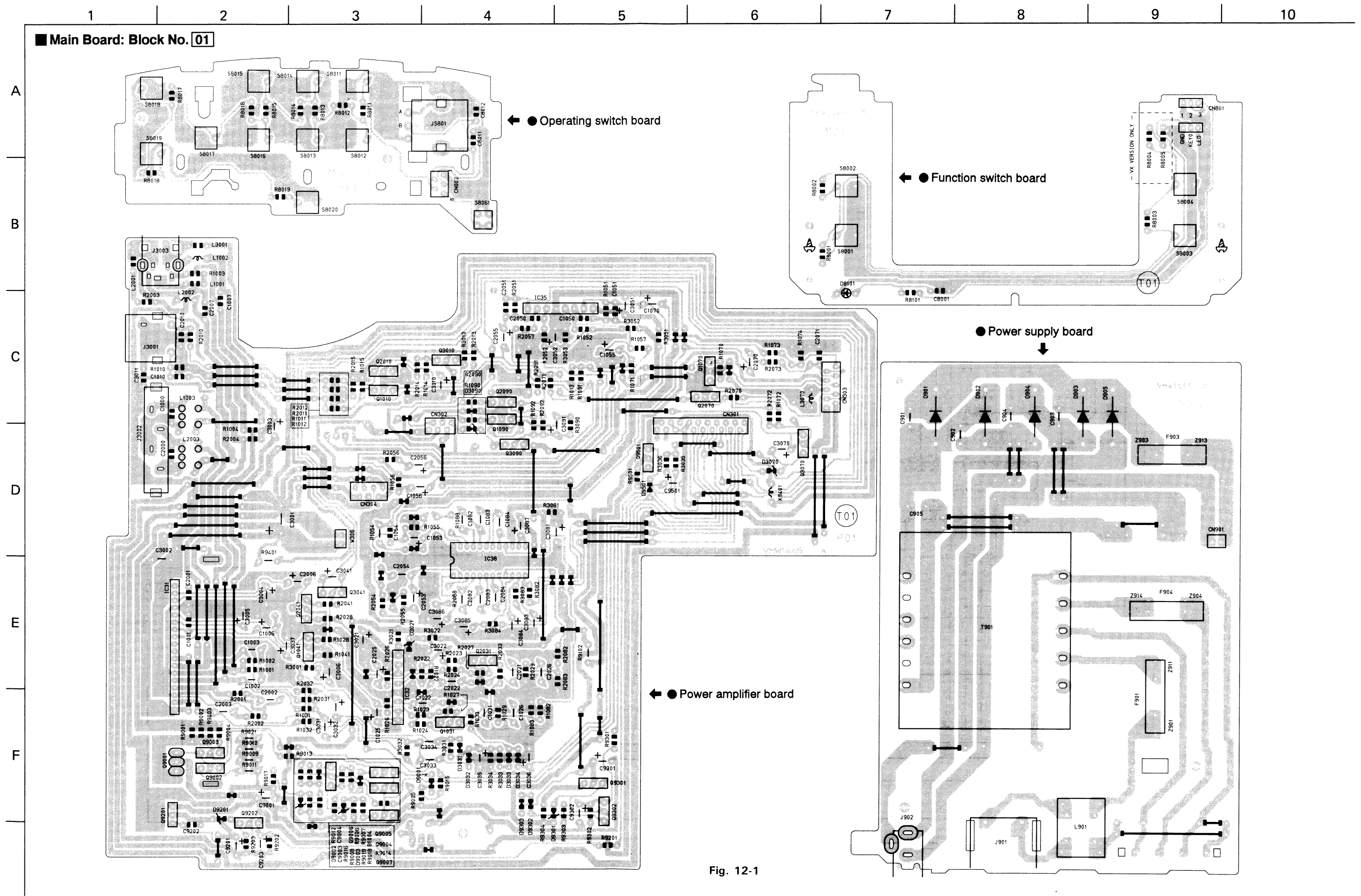
+B Line



Note : VDH1038001TW(/s/G)

FM Radio signal
AM Radio signal
+B Line

12. Location of P. C. Board Parts



■ **CD Servo Control Board: Block No. 03**

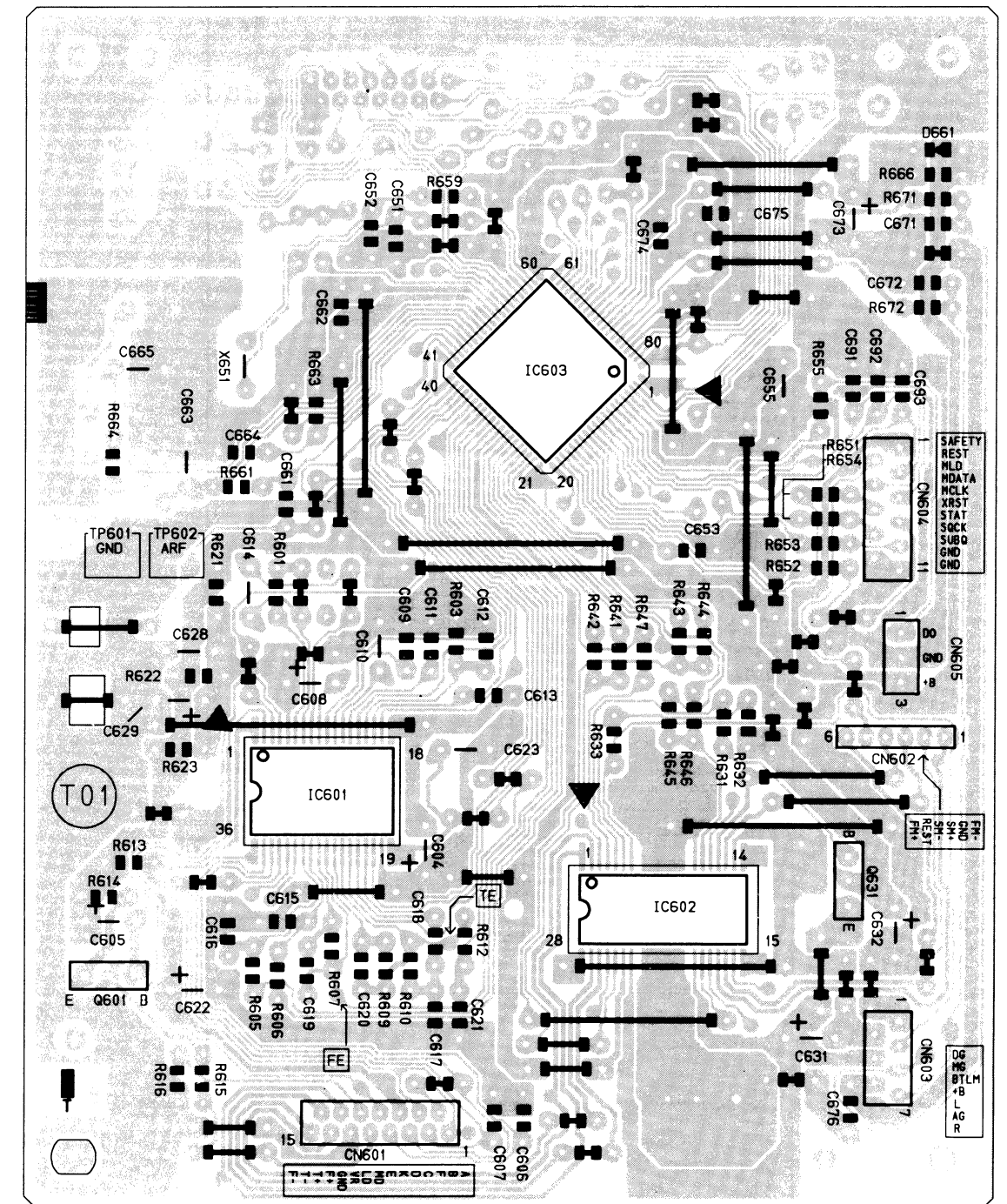


Fig. 12-2

■ Tuner Board: Block No. 04

《Cassette Mechanism》

■ Reel Pulse Board: Block No. 05

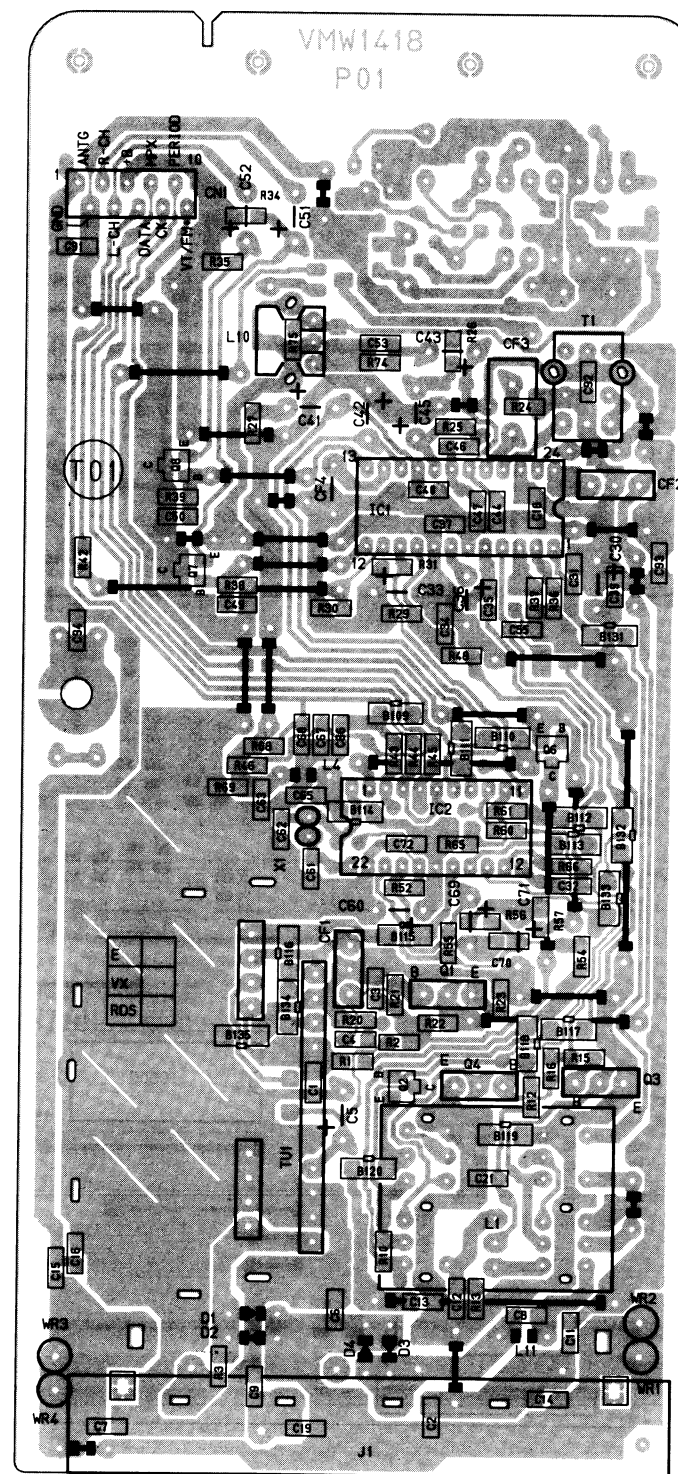


Fig. 12-4

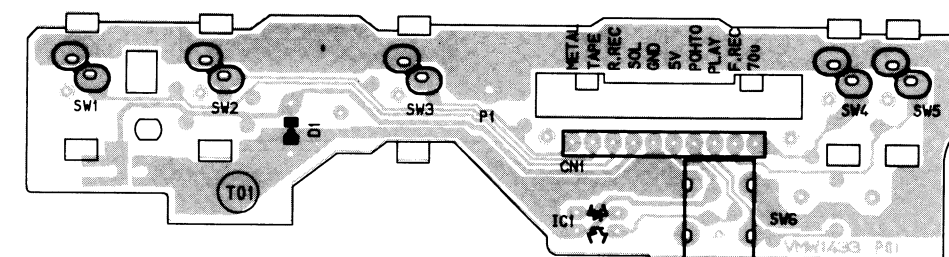


Fig. 12-5

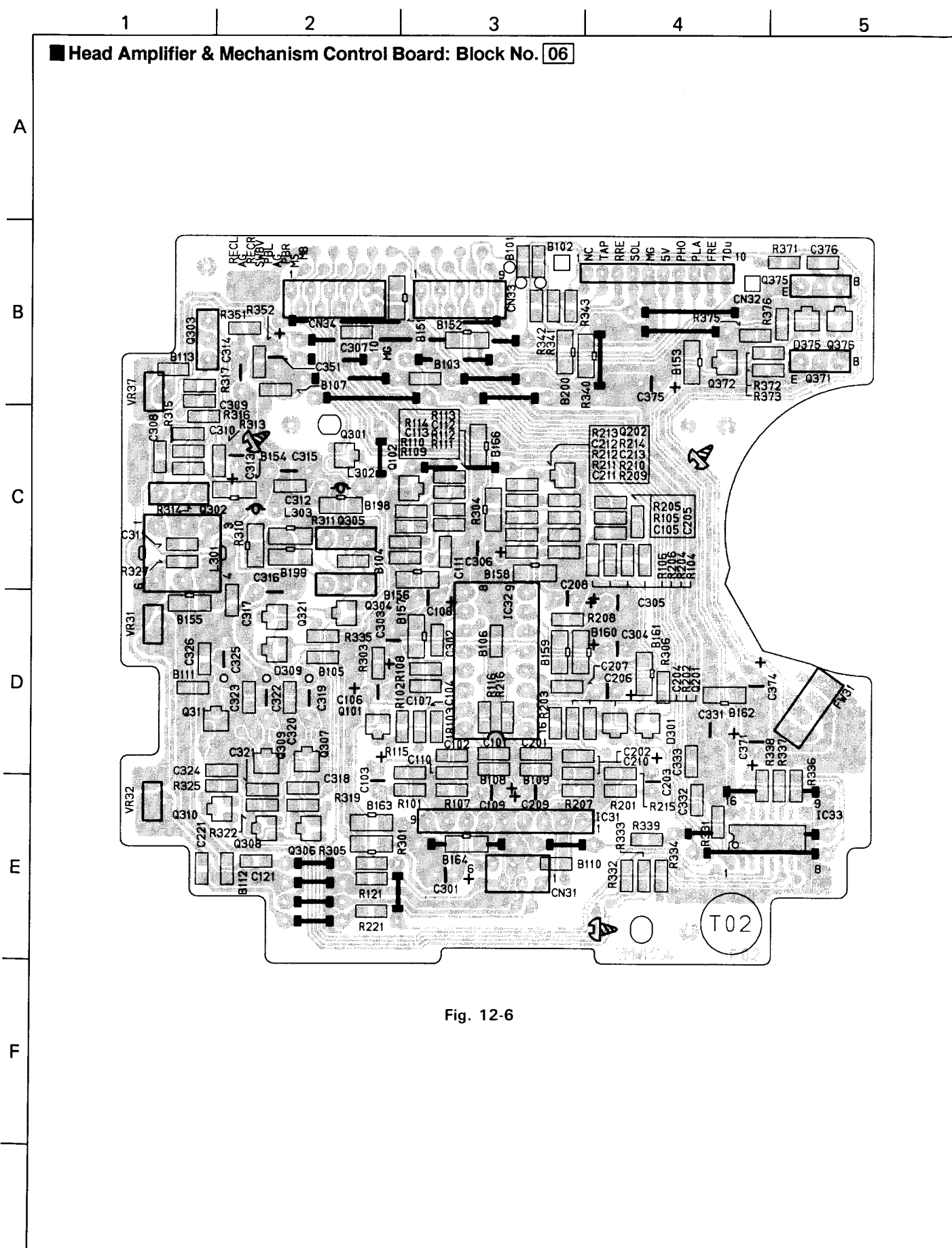


Fig. 12-6

13. Electrical Parts List

Main Board

BLOCK NO. 01				
A	REF.	PARTS NO.	PARTS NAME	SUFFIX
	BL701	QLL0019-001	P.LAMP	
	BL702	QLL0019-001	P.LAMP	
	C 901	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V
	C 902	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V
	C 903	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V
	C 904	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V
	CN301	VMC0314-520	CONNECTOR	
	CN302	VMC0314-506	CONNECTOR	
	CN303	VMC0163-010	CONNECTOR	
	CN304	VMC0163-007	CONNECTOR	
	CN305	VMC0163-RO5	CONNECTOR	
	CN301	VMC0040-002	CONNECTOR	
	C1000	QCBX1CM-332Y	C.CAPACITOR	3300PF 20% 16V
	C1001	QCBX1HK-331Y	C.CAPACITOR	330PF 10% 50V
	C1002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V
	C1003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V
	C1006	QTE1C03-106Z	E.CAPACITOR	220PF 10% 50V
	C1007	QCBX1HK-221Y	C.CAPACITOR	220PF 10% 50V
	C1010	QCBX1HK-221Y	C.CAPACITOR	.082MF 5% 50V
	C1021	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V
	C1022	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V
	C1025	QTE1A03-226Z	E.CAPACITOR	.33MF 5% 50V
	C1026	QFV71HJ-334ZM	FILM CAPACITOR	1000PF 10% 50V
	C1041	QCBX1HK-102Y	C.CAPACITOR	30PF 5% 50V
	C1050	QCS11HJ-300	C.CAPACITOR	10PF 5% 50V
	C1051	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V
	C1053	QTE1C03-106Z	E.CAPACITOR	3900PF 5% 50V
	C1054	QFN81HJ-392	M.CAPACITOR	4.7MF 20% 25V
	C1055	QTE1EM-475	E.CAPACITOR	4.7MF 20% 25V
	C1056	QTE1C03-106Z	E.CAPACITOR	4.7MF 20% 25V
	C1070	QTE1EM-475	E.CAPACITOR	4.7MF 20% 25V
	C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
	C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
	C1084	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V
	C2000	QCBX1CM-332Y	C.CAPACITOR	3300PF 20% 16V
	C2001	QCBX1HK-331Y	C.CAPACITOR	330PF 10% 50V
	C2002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V
	C2003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V
	C2006	QTE1C03-106Z	E.CAPACITOR	220PF 10% 50V
	C2007	QCBX1HK-221Y	C.CAPACITOR	220PF 10% 50V
	C2010	QCBX1HK-221Y	C.CAPACITOR	.082MF 5% 50V
	C2021	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V
	C2022	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V
	C2025	QTE1A03-226Z	E.CAPACITOR	.33MF 5% 50V
	C2026	QFV71HJ-334ZM	FILM CAPACITOR	1000PF 10% 50V
	C2041	QCBX1HK-102Y	C.CAPACITOR	30PF 5% 50V
	C2050	QCS11HJ-300	C.CAPACITOR	10PF 5% 50V
	C2051	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V
	C2053	QTE1C03-106Z	E.CAPACITOR	3900PF 5% 50V
	C2054	QFN81HJ-392	M.CAPACITOR	4.7MF 20% 25V
	C2055	QTE1EM-475	E.CAPACITOR	4.7MF 20% 25V
	C2056	QTE1C03-106Z	E.CAPACITOR	4.7MF 20% 25V
	C2070	QTE1EM-475	E.CAPACITOR	.056MF 5% 50V
	C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
	C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
BLOCK NO. 02				
A	REF.	PARTS NO.	PARTS NAME	SUFFIX
	C2084	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V
	C3001	VCE101E-688	E.CAPACITOR	.10MF 5% 50V
	C3002	QFLC1HJ-104ZM	M.CAPACITOR	100MF 20% 16V
	C3003	QFLC1CM-107	E.CAPACITOR	330MF 20% 10V
	C3004	QETC1AM-337ZM	E.CAPACITOR	33MF 20% 10V
	C3005	QETC1AM-336ZM	E.CAPACITOR	2.2MF 20% 50V
	C3006	QETC1HM-225ZM	E.CAPACITOR	.68MF 20% 50V
	C3010	QETC1HM-684ZM	E.CAPACITOR	.010MF 20% 16V
	C3011	QCVB1CM-103Y	C.CAPACITOR	47MF 20% 16V
	C3021	QET41CM-476	E.CAPACITOR	47MF 20% 10V
	C3022	QET41AM-476	E.CAPACITOR	47MF 20% 10V
	C3031	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V
	C3032	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V
	C3033	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
	C3034	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V
	C3035	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V
	C3036	QET41CM-106	E.CAPACITOR	10MF 20% 16V
	C3037	QET41CM-106	E.CAPACITOR	10MF 20% 16V
	C3038	QCBX1HK-151Y	C.CAPACITOR	150PF 10% 50V
	C3041	QET41EM-106	E.CAPACITOR	10MF 20% 25V
	C3051	QET41CM-476	E.CAPACITOR	47MF 20% 16V
	C3052	QET41CM-476	E.CAPACITOR	47MF 20% 16V
	C3070	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V
	C3081	QET41CM-227	E.CAPACITOR	220MF 20% 16V
	C3083	QET41HM-474	E.CAPACITOR	.47MF 20% 50V
	C3084	QET41HM-474	E.CAPACITOR	.47MF 20% 50V
	C3085	QET41HM-474	E.CAPACITOR	.47MF 20% 50V
	C3086	QET41EM-106	E.CAPACITOR	10MF 20% 25V
	C3087	QETC1HM-224ZM	E.CAPACITOR	.22MF 20% 50V
	C3091	QER41HM-103VM	E.CAPACITOR	1.0MF 20% 50V
	C8011	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V
	C8012	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V
	C9001	QET41CM-226	E.CAPACITOR	22MF 20% 16V
	C9003	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V
	C9004	QCBX1HK-221Y	C.CAPACITOR	220PF 10% 50V
	C9201	QET41CM-476	E.CAPACITOR	47MF 20% 16V
	C9202	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V
	C9203	QET41CM-106	E.CAPACITOR	10MF 20% 16V
	C9301	QET41AM-107	E.CAPACITOR	100MF 20% 10V
	C9302	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V
	C9501	QET41AM-477	E.CAPACITOR	470MF 20% 10V
	A D 901	6A10E2	SI DIODE	
	A D 902	6A10E2	SI DIODE	
	A D 903	6A10E2	SI DIODE	
	A D 904	6A10E2	SI DIODE	
	A D 905	6A10E2	SI DIODE	
	D3021	MTZ4-3JB	ZENER DIODE	
	D3031	1N4148M-T2	SI DIODE	
	D3032	1N4148M-T2	SI DIODE	
	D3033	1N4148M-T2	SI DIODE	
	D3034	1N4148M-T2	SI DIODE	
	D3070	MTZ6.8JB	ZENER DIODE	
	D3090	MTZ6.8JB	ZENER DIODE	
	D9001	1N4148M-T2	SI DIODE	
	D9002	MTZ8.2JC	ZENER DIODE	

BLOCK NO. 01

A. REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R1004	GRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R1010	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R1011	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R1012	GRD161J-623	CARBON RESISTOR	62K 5% 1/6W	
R1013	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1014	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R1015	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1022	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R1023	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1024	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R1026	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1027	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1028	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1029	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1031	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1033	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1041	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1051	GRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R1052	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R1054	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1055	GRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R1056	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1057	GRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R1070	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R1071	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1072	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R1073	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R1074	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R1082	GRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
R1083	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1090	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1091	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1092	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R2001	GRD161J-282	CARBON RESISTOR	2.2 5% 1/6W	
R2002	GRD161J-282	CARBON RESISTOR	2.2 5% 1/6W	
R2003	GRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R2004	GRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R2010	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R2011	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2012	GRD161J-623	CARBON RESISTOR	62K 5% 1/6W	
R2013	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2014	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R2015	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2022	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2023	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2024	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R2026	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2027	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2028	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2029	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2031	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2033	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2041	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	

BLOCK NO. 02

A. REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D9003	MT210JAT-77	ZENER DIODE		
D9201	MT24.3JB	ZENER DIODE		
D9301	MT23.9JB	ZENER DIODE		
D9302	1N4148M-T2	SI DIODE		
D9303	1N4148M-T2	SI DIODE		
D9501	1N4148M-T2	SI DIODE		
IC 31	LA4705NA	IC		
IC 32	BA15218N	IC		
IC 35	BA15218N	IC		
IC 38	BH3852S	IC		
J 901	QNC0001-001	AC SOCKET 8TYPE		
J 902	QMA431B-V01	FILM CAPACITOR		
J5801	QSW0547-001	ROTARY ENCODER		
J3001	QNN0090-001	PIN JACK	KUNMING HSP-242	
J3002	QNB0035-001	SPK TERMINAL	KUNMING HSP-324V	
J3003	VMJ4026-001	HEADPHONE JACK		
K9401	VQZ0107-002	INDUCTOR		
L 901	VQZ0113-001	INDUCTOR		
L1001	VQP0018-470	INDUCTOR		
L1002	VQZ0048-007	INDUCTOR		
L1003	VQZ0104-003	INDUCTOR		
L2001	VQP0018-470	INDUCTOR		
L2002	VQZ0048-007	INDUCTOR		
L2003	VQZ0104-003	INDUCTOR		
L3001	VQP0018-470	INDUCTOR		
L3070	VQZ0048-007	INDUCTOR		
Q1010	2SD2144S(VW)	TRANSISTOR		
Q1031	KTC3199(GL)-T	TRANSISTOR		
Q1041	2SC2001(L,K)	TRANSISTOR		
Q1070	KTC3199(GL)-T	TRANSISTOR		
Q1090	KTC3199(GL)-T	TRANSISTOR		
Q2010	2SD2144S(VW)	TRANSISTOR		
Q2031	KTC3199(GL)-T	TRANSISTOR		
Q2041	2SC2001(L,K)	TRANSISTOR		
Q2070	KTC3199(GL)-T	TRANSISTOR		
Q2090	KTC3199(GL)-T	TRANSISTOR		
Q3010	KTC3199(GL)-T	TRANSISTOR		
Q3041	KRA101M-T	TRANSISTOR		
Q3070	KRA101M-T	TRANSISTOR		
Q3090	KRA101M-T	TRANSISTOR		
Q9001	2SB1565(E,F)	TRANSISTOR		
Q9002	KTC3199(GL)-T	TRANSISTOR		
Q9003	KTA1267(YG)-T	TRANSISTOR		
Q9004	KRC114M-T	TRANSISTOR		
Q9005	DTA144TSIP	TRANSISTOR		
Q9006	KTC3199(GL)-T	TRANSISTOR		
Q9201	2SA1359(OY)	TRANSISTOR		
Q9202	KTC3199(GL)-T	TRANSISTOR		
Q9301	KTA1267(YG)-T	TRANSISTOR		
Q9302	KTC3199(GL)-T	TRANSISTOR		
Q9501	2SC2001(L,K)	TRANSISTOR		
R1001	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1002	GRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1003	GRD161J-151	CARBON RESISTOR	150 5% 1/6W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R2051	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R2052	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R2054	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2055	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R2056	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2057	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R2070	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R2071	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2072	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R2073	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R2082	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R2083	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
R2090	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2091	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2092	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R3001	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R3010	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3052	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3053	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3090	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8011	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8012	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8013	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R8014	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R8015	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8016	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R8017	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R8018	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R8019	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9001	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9002	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9003	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R9005	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R9006	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R9007	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9008	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R9009	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R9010	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R9011	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R9012	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9013	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R9014	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9015	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9016	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9017	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9018	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9019	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
R9021	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R9102	QRZ0077-5R6X	F-RESISTOR	5.6 1/0W	
R9201	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9202	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9203	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R9301	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9302	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R9303	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9304	QRD161J-390	CARBON RESISTOR	39 5% 1/6W	
R9401	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	
R9501	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
S8011	QS04H11-V12Z	TACT SWITCH	TUNER	
S8012	QS04H11-V12Z	TACT SWITCH	UP	
S8013	QS04H11-V12Z	TACT SWITCH	STOP	
S8014	QS04H11-V12Z	TACT SWITCH	TAPE	
S8015	QS04H11-V12Z	TACT SWITCH	CD	
S8016	QS04H11-V12Z	TACT SWITCH	DOWN	
S8017	QS04H11-V12Z	TACT SWITCH	CLOCK	
S8018	QS04H11-V12Z	TACT SWITCH	REC	
S8019	QS04H11-V12Z	TACT SWITCH	SBASS	
S8020	QS04H11-V12Z	TACT SWITCH	SNOOSE	
S8061	QSP2K21-V01	PUSH SWITCH	CD DOOR	
Z 901	EMG7331-003Z	FUSE CLIP		
Z 903	EMG7331-003Z	FUSE CLIP		
Z 911	EMG7331-003Z	FUSE CLIP		
Z 913	EMG7331-003Z	FUSE CLIP		

LCD & System CPU Board

BLOCK NO. 02					BLOCK NO. 02				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN701	VMC0163-R10	CONNECTOR	TO TUNER PWB		D7061	MTZ5-1JC	ZENER DIODE	BUCKUP CONT	
CN711	VMC0314-P20	CONNECTOR	TO AMP PWB CONT		D7091	1N4148M-T2	SI DIODE	US5V	
CN712	VMC0314-P06	CONNECTOR	TO AMP PWB SIG.		D8101	L-341D-T12	LED	STANDBY LED RED	
CN731	VMC0163-009	CONNECTOR	TO MECHA PWB		IC701	UPD78064GF-091	IC	SYSTEM MICON	
CN766	VMC0163-R11	CONNECTOR	TO CD PWB		IC702	PIC-21043SP	REMOKON SENSOR		
CN781	VMC0289-P03	CONNECTOR	TO FRONT SW PWB		IC703	KIA78S06P-T	IC	US6V REG	
CN782	VMC0163-005	CONNECTOR	TO TOP SW PWB		IC7001	VQZ0107-002	INDUCTOR	ICVSS	
CN801	VMC0289-S03K	CONNECTOR	CLOCK		K7002	VQZ0107-002	INDUCTOR	AVSS	
C7001	NCS21HJ-180AY	C CAPACITOR	CLOCK		K7003	VQZ0107-002	INDUCTOR		
C7002	NCS21HJ-180AY	C CAPACITOR	CLOCK		K7004	VQZ0107-002	INDUCTOR		
C7003	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		L7002	VQP0033-100Z	INDUCTOR	US5V	
C7004	NCS21HJ-360AY	C CAPACITOR	MAIN CLOCK SHIF		L7003	VQP0033-100Z	INDUCTOR	AVDD	
C7005	NCS21HJ-390AY	C CAPACITOR	MAIN CLOCK SHIF		L7005	VQP0018-4R7	INDUCTOR	AVREF	
C7006	NCS21HJ-200AY	C CAPACITOR	MAIN CLOCK		L7701	VQP0018-4R7	INDUCTOR		
C7007	NCS21HJ-220AY	C CAPACITOR	MAIN CLOCK		L7702	VQP0018-4R7	INDUCTOR		
C7008	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q7001	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
C7009	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q7002	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
C7011	QER41M-107	E-CAPACITOR	100MF 20% 10V		Q7031	2SA1037AK(RS)-X	HIP TRANSISTOR	SW5V	
C7012	NCS21HK-103AY	C CAPACITOR	.010MF 10% 50V		Q7051	DTC114TKT146	TRANSISTOR	RESET SW	
C7013	QFLC1HJ-104ZM	M-CAPACITOR	.10MF 5% 50V		Q7061	2SC212KK1	TRANSISTOR	BACKUP CONT	
C7014	QER41CM-106	E-CAPACITOR	10MF 20% 16V		Q7091	2SC212KK1	TRANSISTOR	POUT DRIVER	
C7021	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		Q7092	2SA1037AK(RS)-X	HIP TRANSISTOR	STANDBY LED CON	
C7022	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q7601	DTC144TKA-X	TRANSISTOR		
C7031	QETB0JM-228N	E CAPACITOR	BACKUP CAPACITO		Q7602	DTC144TKA-X	TRANSISTOR		
C7051	QER61HM-684ZM	E-CAPACITOR	.68MF 20% 50V		R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
C7052	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
C7081	NCS21HK-104	C CAPACITOR	AM LCD NOISE		R7031	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
C7601	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7602	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C7619	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7620	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7621	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
C7622	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C7633	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7641	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7644	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7646	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7084	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
C7702	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7093	NRSA02J-153NY	MG RESISTOR	STANDBY LED CON	
C7705	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V		R7095	NRSA02J-333NY	MG RESISTOR	STANDBY LED CON	
C7723	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7096	NRSA02J-102NY	MG RESISTOR	STANDBY LED CON	
C7724	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7429	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
C7734	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7528	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
C7744	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		R7529	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C7745	QER61HM-335ZM	E-CAPACITOR	3.3MF 20% 50V		R7530	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7746	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		R7544	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
C7802	NCS21HK-103AY	C CAPACITOR	MICOM NOISE		R7545	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
C7803	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7602	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
D1701	VGL1221-002	LCD	44PIN		R7614	NRSA02J-103NY	MG RESISTOR	EXCEPT RDS	
D7001	1N4148M-T2	SI DIODE	US5V		R7615	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
D7011	MTZ8-2JB	ZENER DIODE	SHORT HOGO		R7619	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
D7012	1N4148M-T2	SI DIODE	SHORT HOGO		R7620	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
D7031	1N4148M-T2	SI DIODE	BUCKUP		R7621	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
D7032	1N4148M-T2	SI DIODE	CLOCK		R7622	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
D7051	1N4148M-T2	SI DIODE	RESET		R7625	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	

BLOCK NO. 02				
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7628	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R7629	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7630	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
R7631	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7632	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7633	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7634	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7635	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7639	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7641	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7642	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7643	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7644	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7646	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7701	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7702	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7705	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7711	NPSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7720	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7723	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7728	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7729	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7730	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7738	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7739	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7741	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7742	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7743	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7744	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
R7745	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7746	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7747	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7748	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R7749	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R7750	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7799	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 02				
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R8001	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8002	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8003	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R8101	GRD161J-271	CARBON RESISTOR	270 5% 1/6W	
S8001	GSQ4H11-V12Z	TACT SWITCH	POWER	
S8002	GSQ4H11-V12Z	TACT SWITCH	AUX	
S8003	GSQ4H11-V12Z	TACT SWITCH	VOLUME+	
S8004	GSQ4H11-V12Z	TACT SWITCH	VOLUME-	
X7001	VCX5000-002	CRYSTAL	CLOCK	
X7002	M2Z4.19	CERA LOCK	MAIN CLOCK	
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CD Servo Control Board

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 604	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C 606	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V	
C 607	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V	
C 608	QET41EM-105	E CAPACITOR	1.0MF 20% 50V	
C 609	QCB81HK-101Y	C CAPACITOR	1000PF 10% 50V	
C 610	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V	
C 611	QCB81HK-222Y	C CAPACITOR	2200PF 20% 16V	
C 612	QCB81HK-222Y	C CAPACITOR	.010MF 20% 16V	
C 613	QCB81HK-331Y	C CAPACITOR	330PF 10% 50V	
C 614	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
C 615	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 616	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 617	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 618	QCB81HK-222Y	C CAPACITOR	2200PF 20% 16V	
C 619	QCB81HK-271Y	C CAPACITOR	270PF 10% 50V	
C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
C 621	QCB81HK-821Y	C CAPACITOR	820PF 10% 50V	
C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V	
C 623	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
C 628	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V	
C 630	QET41AM-477	E CAPACITOR	470MF 20% 10V	
C 632	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
C 651	QCS11HJ-120	C CAPACITOR	12PF 5% 50V	
C 652	QCS11HJ-150	C CAPACITOR	15PF 5% 50V	
C 653	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 655	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
C 661	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V	
C 662	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 663	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C 664	QCH81E2-223	C CAPACITOR	.022MF +80% -20%	
C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
C 671	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V	
C 672	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V	
C 673	QHE1C03-227	E CAPACITOR	.022MF +80% -20%	
C 674	QCH81E2-223	C CAPACITOR	AG-DG	
C 675	QCB81HK-102Y	C CAPACITOR	AG-DG	
C 676	QCB81HK-102Y	C CAPACITOR	DENGEN NOISE	
C 691	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE	
C 692	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE	
C 693	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE	
CN601	QGF1008F1-15	15PIN CONNECTOR	TO RF	
CN603	VMC0163-R07	CONNECTOR	TO AUDIO	
CN604	VMC0163-R11	CONNECTOR	TO MICRON	
CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
D 661	1SS133	SI DIODE		
IC601	AN8806SB	IC	RF AMP	
IC602	BA6897FP	IC	DRIVER	
IC603	MN35510	IC	1CHIP PROCESSOR	
Q 601	2SA952(L,K)	TRANSISTOR		
Q 631	2SA952(L,K)	TRANSISTOR		
R 601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
R 605	QRD167J-134	C.RESISTOR	130K 5% 1/6W	

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 609	QRD161J-114	C.RESISTOR	110K 5% 1/6W	
R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 623	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
X 651	VX5016-934V	CRYSTAL	16.934MHZ	

Tuner Board

BLOCK NO. 04					BLOCK NO. 04				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		C 93	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		C 94	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		CF 1	VC2M3B-104	CERAMIC FILTER	FM IF	
C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		CF 2	VC2S3B-102	C FILTER	FM IF	
C 5	QEK41CM-106	E-CAPACITOR	10MF 20% 16V		CF 3	VC172Z-115Z	CERAMIC FILTER		
C 6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		CF 4	CMU2-456B05	CERA LOCK		
C 7	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V		CN 1	VMC0163-R10	CONNECTOR		
C 8	NCS21HJ-150AY	C-CAPACITOR	15PF 5% 50V		D 1	1SS133	SI DIODE		
C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		D 2	1SS133	SI DIODE		
C 10	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		D 3	1SS133	SI DIODE		
C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		D 4	1SS133	SI DIODE		
C 12	NCB21HK-102AY	C CAPACITOR	15PF 50% -10% 1		IC 1	TA2057N	IC		
C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		IC 2	LC72136N	IC		
C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
C 15	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		L 1	VQ20098-102	COIL BLOCK	MW/LW RF/OSC	
C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		L 4	VQ20018-221	INDUCTOR		
C 17	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		L 10	VQ20069-002	TRAP COIL	114KHZ TRAP	
C 18	NCB21HK-102AY	C CAPACITOR	1200PF 10% 50V		L 11	VQ20018-2R7	INDUCTOR		
C 19	NCB21HK-122AY	C CAPACITOR	.047MF 10% 25V		Q 1	2SC2668(O)	TRANSISTOR		
C 20	QEK41CM-476	E-CAPACITOR	47MF 20% 16V		Q 2	DTA114YKA-X	TRANSISTOR		
C 21	NCB21HK-103AY	C CAPACITOR	39PF 5% 50V		Q 3	KTC3199(GL)-T	TRANSISTOR		
C 22	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q 4	KTC3199(GL)-T	TRANSISTOR		
C 23	NCB21HK-102AY	C CAPACITOR	100MF 20% 10V		Q 6	DTA114YKA-X	TRANSISTOR		
C 24	QEK41CM-107Z	E-CAPACITOR	15PF 5% 50V		Q 7	2SA1037K(R)	TRANSISTOR		
C 25	NCS21HJ-150AY	C CAPACITOR	1000PF 10% 50V		Q 8	2SA1037K(R)	TRANSISTOR		
C 26	NCB21HK-102AY	C CAPACITOR	10MF 20% 16V		R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 27	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
C 28	QEK41CM-474	E-CAPACITOR	47MF 20% 50V		R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
C 29	NCB21HK-103AY	C CAPACITOR	3.3MF 20% 50V		R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
C 30	NCB21HK-102AY	C CAPACITOR	220PF 5% 50V		R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 31	NCB21HK-103AY	C CAPACITOR	10MF 20% 16V		R 13	NRSA02J-102NY	MG RESISTOR	100K 5% 1/10W	
C 32	NCB21HK-102AY	C CAPACITOR	.018MF 10% 50V		R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C 33	NCB21HK-103AY	C CAPACITOR	.018MF 10% 50V		R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C 34	QEK41CM-106	E-CAPACITOR	10MF 20% 16V		R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
C 35	NCB21HK-102AY	C CAPACITOR	.022MF 10% 50V		R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
C 36	QEK41CM-106	E-CAPACITOR	.010MF 10% 50V		R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
C 38	NCB21HK-103AY	C CAPACITOR	.018MF 10% 50V		R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
C 41	QEK41CM-104	E-CAPACITOR	10MF 20% 50V		R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
C 42	QEK41CM-474	E-CAPACITOR	.47MF 20% 50V		R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C 43	QEK41CM-335ZN	E-CAPACITOR	3.3MF 20% 50V		R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C 44	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V		R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C 45	QEK41CM-106	E-CAPACITOR	10MF 20% 16V		R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
C 47	NCB21HK-103AY	C CAPACITOR	.018MF 10% 50V		R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C 48	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V		R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V		R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V		R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
C 51	QEK41CM-105	E-CAPACITOR	1.0MF 20% 50V		R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 52	QEK41CM-105	E-CAPACITOR	1.0MF 20% 50V		R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V		R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 54	NCB21HK-120AY	C CAPACITOR	12PF 5% 50V		R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C 55	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V		R 46	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C 56	QEK41CM-107Z	E-CAPACITOR	1000PF 10% 50V						
C 57	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V						
C 58	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V						
C 59	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V						
C 60	QEK41CM-107Z	E-CAPACITOR	150PF 5% 50V						
C 61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V						
C 62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V						
C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V						
C 64	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V						
C 65	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V						
C 66	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V						
C 67	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V						
C 68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V						
C 69	QEK41CM-225	E-CAPACITOR	2.2MF 20% 50V						
C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V						
C 71	QEK41CM-335ZN	E-CAPACITOR	3.3MF 20% 50V						
C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V						
C 73	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V						
C 74	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V						

[illegible]

REF.	PARTS NO.	PARTS NAME	REMARKS	SUPPLY
R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 68	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
T 1	VQT7A21-113	IFT		
TU 1	GAU0034-001	FRONT END	FM TU	
X 1	VCK5044-001	CRYSTAL		

■ Head Amplifier & Mechanism Control Board

BLOCK NO. 06

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 101	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
C 102	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C 103	CEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
C 104	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 105	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 106	CEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 107	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
C 108	CEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 109	CEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 110	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 111	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 112	NCB21HK-683AY	C CAPACITOR	.068MF 10% 25V	
C 113	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 121	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C 201	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
C 202	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C 203	CEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
C 204	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 205	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 206	CEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 207	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
C 208	CEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 209	CEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 210	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 211	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 212	NCB21HK-683AY	C CAPACITOR	.068MF 10% 25V	
C 213	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 221	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C 301	CEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 302	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V	
C 303	CEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
C 304	CEK41CM-226	E CAPACITOR	22MF 20% 16V	
C 305	CEK41CM-226	E CAPACITOR	22MF 20% 16V	
C 306	CEK41CM-476	E CAPACITOR	47MF 20% 16V	
C 307	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 308	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 309	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 310	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 311	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 313	CEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 314	QCZ0205-155	ML.C. CAPACITOR	1.5MF	
C 315	QCZ0205-155	ML.C. CAPACITOR	1.5MF	
C 316	QFG32AJ-103ZN	PP CAPACITOR	.010MF 5% 100V	
C 318	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 319	QFG32AJ-821ZN	TF CAPACITOR	820PF 5% 100V	
C 321	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 322	QFG32AJ-152ZN	PP CAPACITOR	1500PF 5% 100V	
C 331	CEK41CM-476	E CAPACITOR	47MF 20% 16V	
C 351	CEK41CM-106	E CAPACITOR	SHORT TEST TAILS	
C 371	CEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 374	CEK41AM-107ZN	E CAPACITOR	MOTOR +B	
C 375	CEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 376	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
CN 31	VMC0163-R06	CONNECTOR	PRI/HEAD	
CN 32	QGB2011M1-10	PWB CONECTOR	PRI/MECHA	

BLOCK NO. 06

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 33	VMC0163-R09	CONNECTOR	PRI/WICON	
CN 34	VMC0163-R10	CONNECTOR	PRI/AMP	
D 301	MA152WA-TX	DIODE	SHORT TEST TAILS	
D 309	MA704A	S.K. DIODE		
D 375	MA3051(M)	ZENER DIODE		
FW 31	VWS304-06A13K	FLAT WIRE	HEAD SW	
IC 31	BA3126N	IC	PB&REC	
IC 32	AN7317	IC		
IC 33	BU4094BCF-X	IC		
L 301	QGR0620-001	OSC. COIL(BIAS)		
L 303	VQP0033-100Z	INDUCTOR		
Q 101	FA1A4ZX	TRANSISTOR		
Q 102	FA1A4ZX	TRANSISTOR	REC EQ CONT.	
Q 201	FA1A4ZX	TRANSISTOR		
Q 202	FA1A4ZX	TRANSISTOR	REC EQ CONT.	
Q 301	FN1L4M	TRANSISTOR		
Q 302	2SC2001(L,K)	TRANSISTOR		
Q 303	2SC2001(L,K)	TRANSISTOR		
Q 304	2SC2001(L,K)	TRANSISTOR		
Q 305	2SC2001(L,K)	TRANSISTOR		
Q 306	2SC1623(6)	TRANSISTOR		
Q 307	2SC1623(6)	TRANSISTOR		
Q 308	2SC1623(6)	TRANSISTOR		
Q 309	2SC1623(6)	TRANSISTOR		
Q 321	FA1L4M	TRANSISTOR		
Q 323	2SC1623(6)	TRANSISTOR	SHORT TEST TAILS	
Q 371	2SA952(L,K)	TRANSISTOR	MOTOR+B	
Q 372	FA1F4MX	D. TRANSISTOR		
Q 375	2SB562(C)	TRANSISTOR	SOLENOID DRIVE	
Q 376	2SC1623(6)	TRANSISTOR		
R 101	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R 102	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 103	NRSA02J-242NYM	RESISTOR	2.4K 5% 1/10W	
R 104	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 105	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 106	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 107	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 108	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 109	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 110	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 111	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 112	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 113	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 114	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 116	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 121	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 201	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R 202	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 203	NRSA02J-242NYM	RESISTOR	2.4K 5% 1/10W	
R 204	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 205	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 206	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 207	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 208	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 209	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	

BLOCK NO. 06

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 210	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 211	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 212	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 213	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 214	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 216	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 221	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 301	NRS181J-221NY	MG RESISTOR	220 5% 1/8W	
	R 303	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 304	NRS181J-101NY	MG RESISTOR	100 5% 1/8W	
	R 305	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 306	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 310	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
	R 311	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
	R 313	NRSA02J-3R3NYM	RESISTOR	3.3 5% 1/10W	
	R 314	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 315	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 316	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 317	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 319	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 322	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 327	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
	R 332	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 333	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 335	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 336	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 337	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 338	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 339	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 340	NRS181J-391NY	MG RESISTOR	390 5% 1/8W	
	R 341	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 342	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
	R 343	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	R 351	NRSA02J-683NY	MG RESISTOR	SHORT TEST TAIS	
	R 352	NRSA02J-912NY	RESISTOR	SHORT TEST TAIS	
	R 371	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 375	NRSA02J-151NY	MG RESISTOR	150 5% 1/10W	
	R 376	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	VR 31	QVPA603-503AZ	SEMI.V.RESISTOR	BIAS ADJ	
	VR 32	QVPA603-503AZ	SEMI.V.RESISTOR	BIAS ADJ	
	VR 37	QVPA603-103M	SEMI.V.RESISTOR	TAPE SPEED ADJ	

14. Packing

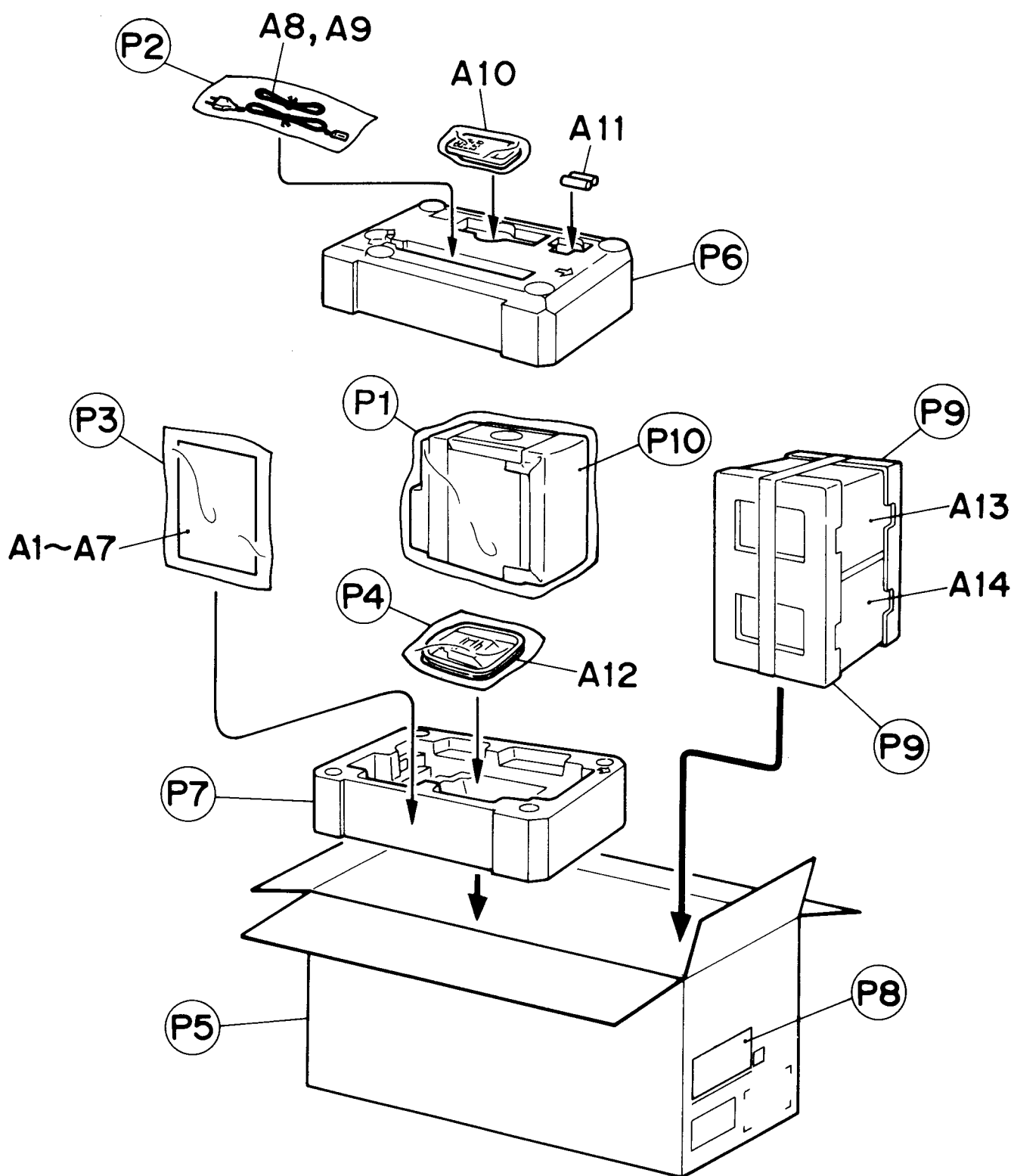


Fig. 14-1

■ Packing Parts List

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPE3026-006	POLY BAG	FOR SET	1	B E,EN,G	
P	2	QPGA015-03503	POLY BAG	FOR P.CORD	1		
P	3	QPGA012-02505	POLY BAG	FOR P.CORD	1		
P	4	VPE3026-004	POLY BAG	INSTRUCTIONS	1		
P	5	VPE3005-042	POLY BAG	FOR AM ANT	1		
P	6	VPC9316-001	CARTON		1		
P	7	VPH1709-001	CUSHION(UPPER)		1		
P	8	VPH1709-002	CUSHION(BOTTOM)		1		
P	9	VGSP024-004	CARTON LABEL		1		
			CUSHION(SP)		2		

■ Accessories

BLOCK NO. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1	VPK3001-012	SHEET		1	E E,EN,G EN B	
A	2	VNN9316-C251	INSTRUCTIONS		1		
		VNN9316-C261	INSTRUCTIONS		1		
		VNN9316-C271	INSTRUCTIONS		1		
		VNN9316-C671	INSTRUCTIONS		1		
A	3	BT-54003-1	WARRANTY CARD		1	B G B B	
		BT-54006-1	WARRANTY CARD		1		
A	4	BT-20066A	SVC CENTER LIST		1		
A	5	E43486-340B	SAFETY SHEET		1		
A	6	VNA1003-003	USER CARD		1	E,EN,G B	
A	7	VNC1200-107	CAUTION SHEET		1		
A	8	QMP39F0-183JE	POWER CORD		1		
		QMP5520-183BS	POWER CORD		1		
A	9	EW503-001	ANT.WIRE	FM ANT	1		
A	10	VGR0063-201	REMOCON UNIT		1	EN,G B,E	
A	11	R6SPTT/2STA	BATTERY	FOR REMOCON	1		
A	12	EQB4001-015	AM LOOP ANT	AM ANT	1		
A	13	UXT100HK-SPBOX	SPEAKER BOX		2		
		UXT100K-SPBOX	SPEAKER BOX		2		
SVP	1	VGSP024-002	SPEAKER NET		2		